



TRIAX

connecting the future



TRIAX® Satellite reception

crystal clear signal to your TV
via dish, fibre or multiswitch solutions



triax.com



Reliability is our business. It's what we stand for.

For nearly 70 years, TRIAX has strived to be your preferred partner for all your connectivity needs. We're proud to provide reliable solutions for the present, while connecting our customers to the future.

At the forefront of technological trends and developments, we're with you each step of the way, from installing home connections and business critical hospitality solutions, to realising complex, large scale integrations.

Ready for any job at hand, our products are available individually or as part of tailor-made

solutions. From aerials and dishes, to headends, outlets, cables and beyond – we make connectivity easy, ensuring you live up to your own customer promises.

Rest assured that at TRIAX, reliability and innovation run through the core of everything we do, from product development to our friendly, efficient service and support.

So enjoy browsing through this catalogue for an overview of our full product range. And of course, we're always just a phone call away for more inspiration towards your next solution.

Contact TRIAX

To place an order or consult one of our experts, contact us via:

Phone: +45 76 82 22 00
e-mail: triax@triax.com

Or pay us a visit online at www.triax.com, where you'll find a wealth of further material about our products and solutions.

TRIAX® Dishes, Fibre, LNB & Multiswitches

flexible solutions - easy installation

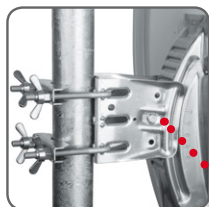
CONTENT	PAGE
TD steel dish series	6-13
DAP series	14-15
FIBRE OPTIC NETWORK COMPONENTS	
Fibre LNB - IRS systems	18-21
Active fibre splitter - N-cable	22-23
Opto - Repeater	24-25
Opto - Reconverters	26-27
Opto - Multiswitches	28-29
Opto - Couplers	30-33
Opto - Cables & accessories	34-39
LNB's	
LNB units	42-53
LNB brackets	54-55
Multiswitches - Stand-alone	
■ QUAD LNB support, Active TER,	1 pos. 62-63
■ Active TER	1-4 pos. 64-81
■ Passive TER	1-4 pos. 82-91
■ Passive TER, Power by receiver	1-2 pos. 92-95
Multiswitches - Cascadable	
■ Active TER, external PSU	1-4 pos. 96-105
■ Passive TER, external PSU	1-4 pos. 106-117
■ SCR (Single Cable Router)	1-3 pos. 118-119
■ SkyQ dSCR (digital Single Cable Router)	1 pos. 120-121
Amplifiers	122-123
Taps & Splitters, Accessories	124-127
DiSEqC switches	128-129
Mounting accessories	130-137



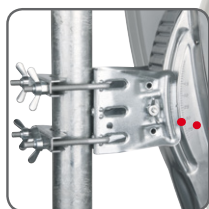
TRIAX[®] high quality satellite dishes

crystal clear signals to your TV

Quick and easy installation



Patented elevation brackets with accurate setting scales:
Quick and easy installation and adjustment to your desired satellite.



Secure fitting of the feed-arm: The coaxial cable runs through the feed-arm to the back of the dish.
Here, an additional plastic locking device keeps everything in place.



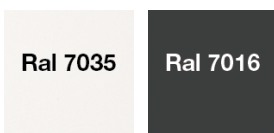
Serrated, non-slip mast brackets ensure the stability of the dish.



The pre-mounted feed-arm just needs unfolding.
The LNB holder is simply clicked on.



The two Triax standard colours



On the TD 110 the feed-arm is not pre-mounted. Instead, for stable mounting, it is secured with an additional wing-nut on the rear of the dish.



The UV-resistant plastic Ø40 mm LNB holder is quickly clicked on to the feed-arm.
An adapter is provided for Ø23 mm LNBs.



TRIAX® flexible dish solutions

standard or customised to your requirements

Choose TD dishes

The most important part of an installation is the quality of the incoming signal.



TD64

TD78

TD88

TD110

Standard assortment

Choose between:

- Size (height) 64, 78, 88 or 110 cm
- Colours - RAL 7016 or 7035
- Accessorie bags - Wing nut or 6-edge flange nut with 1 or 2 mastclamps depending on dishsize
- Packaging: Single pack or bulk single pack*

All TRIAX TDS series of dishes are manufactured in galvanised steel and are supplied with a mounting kit and the TRIAX logo on the reflector.

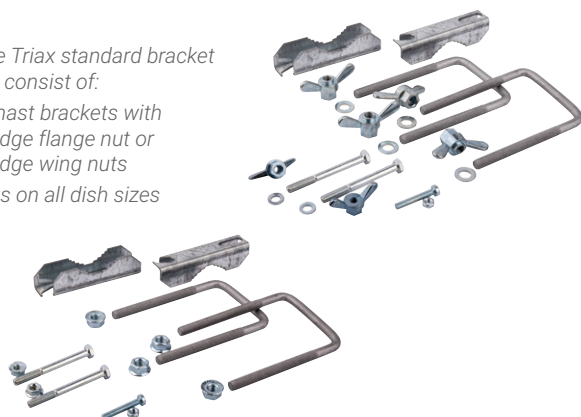
All standard LNBs can be fitted and our range of wall brackets provide different options for your installation.



A new aluminium LNB bracket is now available for the TD-series

The Triax standard bracket set consist of:

2 mast brackets with 6-edge flange nut or 6-edge wing nuts
- fits on all dish sizes



Our standard solutions meet most needs

We know no two customers are alike, which is why you can choose from a range of standard solutions or customised dishes and packaging upon request.

As a leading satellite dish manufacturer, we offer "one-stop-shopping," with all the accessories you need for the perfect installation.

We have also made installation quick and easy, as many parts are pre-mounted on the dish meaning few tools are needed.

**Bulk single pack = 50 or 100 dishes per package, accessories are not pre-mounted but are delivered single boxed to marry with dish reflector.*



Customise to your requirements

We can meet most special requests for:

- Material
- Sizes
- Colours
- Nuts and bolts
- Customised packaging and/or logo

Please contact us to discuss how we can benefit your business.

TRIAX® TD 64 series single pack

high quality satellite dishes



TD64 std. RAL 7016,
singlepack - Flange nut

Art. No. 120611

EAN Number
5702661206115



TD64 std. RAL 7016,
singlepack - Wing nut

Art. No. 120612

EAN Number
5702661206122



TD64 std. RAL 7035,
singlepack - Flange nut

Art. No. 120621

EAN Number
5702661206214



TD64 std. RAL 7035,
singlepack - Wing nut

Art. No. 120622

EAN Number
5702661206221



Singlepacked



Bulk Singlepacked



TRIAX® TD 64 series bulk pack

high quality satellite dishes



**TD64 std. RAL 7016,
100 pcs. bulk pack
Flange nut**

Art. No. 120613
EAN Number
5702661206139



**TD64 std. RAL 7035,
100 pcs. bulk pack
Flange nut**

Art. No. 120623
EAN Number
5702661206238



**TD64 std. RAL 7016,
100 pcs. bulk pack
Wing nut**

Art. No. 120614
EAN Number
5702661206146



**TD64 std. RAL 7035,
100 pcs. bulk pack
Wing nut**

Art. No. 120624
EAN Number
5702661206245

TECHNICAL DATA	TD 64 Singlepack	TD 64 Bulk Singlepack
Art. no.	120611/120612 120621/120622	120613/120614 120623/120624
CHARACTERISTICS		
Elevation range	10-50 / 45-80°	10-50 / 45-80°
G/T LNB 0.7	16dB/K	16dB/K
X-polarisation	>27dB	>27dB
Offset angle	26°	26°
FREQUENCY		
Frequency range	10.7 - 12.75GHz	10.7 - 12.75GHz
GAIN		
Gain @ 11.7 GHz	35.8dBi	35.8dBi
MECHANICAL		
Net Weight	2,300kg	2,300kg
Packing QTY	1	100
Remarks	Singlepacked	Bulk Singlepacked
Material	Galvanized Steel	Galvanized Steel
Height (cm)	65cm	65cm
Width (cm)	60cm	60cm
LNB holder	23-40mm / Black	23-40mm / Black
Mast bracket diameter	<60mm	<60mm
Reflector type	Offset	Offset
Beamwidth	3.1°	3.1°
Windload @ 42 m/s	445N	445N
Dish colour	RAL 7016 RAL 7035	RAL 7016 RAL 7035
Arm colour	raw	raw
Back structure colour	raw	raw
Dimensions carton (H x D x W)	658 x 658 x 115	658 x 658 x 115
Finish	Polyester powder coat	Polyester powder coat

TRIAX® TD 78 series single pack

high quality satellite dishes



TD78 std. RAL 7016,
singlepack - Flange nut

Art. No. 120711

EAN Number
5702661207112



TD78 std. RAL 7016,
singlepack - Wing nut

Art. No. 120712

EAN Number
5702661207129



TD78 std. RAL 7035,
singlepack - Flange nut

Art. No. 120721

EAN Number
5702661207211



TD78 std. RAL 7035,
singlepack - Wing nut

Art. No. 120722

EAN Number
5702661207228



Singlepacked



Bulk Singlepacked



TRIAX® TD 78 series bulk pack

high quality satellite dishes



**TD78 std. RAL 7016,
100 pcs. bulk pack
Flange nut**

Art. No. 120713

EAN Number
5702661207136



**TD78 std. RAL 7016,
100 pcs. bulk pack
Wing nut**

Art. No. 120714

EAN Number
5702661207143



**TD78 std. RAL 7035,
100 pcs. bulk pack
Flange nut**

Art. No. 120723

EAN Number
5702661207235



**TD78 std. RAL 7035,
100 pcs. bulk pack
Wing nut**

Art. No. 120724

EAN Number
5702661207242

TECHNICAL DATA	TD 78 Singlepack	TD 78 Bulk Singlepack
Art. no.	120711/120712 120721/120722	120713/120714 120723/120724
CHARACTERISTICS		
Elevation range	10-60°	10-60°
G/T LNB 0.7	17.3dB/K	17.3dB/K
X-polarisation	>27dB	>27dB
Offset angle	26°	26°
FREQUENCY		
Frequency range	10.7 - 12.75GHz	10.7 - 12.75GHz
GAIN		
Gain @ 11.7 GHz	37.1dBi	37.1dBi
MECHANICAL		
Net Weight	4,000kg	4,000kg
Packing QTY	1	100
Remarks	Singlepacked	Bulk Singlepacked
Material	Galvanized Steel	Galvanized Steel
Height (cm)	78cm	78cm
Width (cm)	70cm	70cm
LNB holder	23-40mm / Black	23-40mm / Black
Mast bracket diameter	<60mm	<60mm
Reflector type	Offset	Offset
Beamwidth	2.6°	2.6°
Windload @ 42 m/s	619N	619N
Dish colour	RAL 7016 RAL 7035	RAL 7016 RAL 7035
Arm colour	raw	raw
Back structure colour	raw	raw
Dimensions carton (H x D x W)	773 x 778 x 126	773 x 778 x 126
Finish	Polyester powder coat	Polyester powder coat

TRIAX® TD 88 series single pack

high quality satellite dishes



**TD88 std. RAL 7016,
singlepack - Flange nut**

Art. No. 120811

EAN Number
5702661208119



**TD88 std. RAL 7016,
singlepack - Wing nut**

Art. No. 120812

EAN Number
5702661208126



**TD88 std. RAL 7035,
singlepack - Flange nut**

Art. No. 120821

EAN Number
5702661208218



**TD88 std. RAL 7035,
singlepack - Wing nut**

Art. No. 120822

EAN Number
5702661208225



Singlepacked



Bulk Singlepacked



TRIAX® TD 88 series bulk pack

high quality satellite dishes



**TD88 std. RAL 7016,
100 pcs. bulk pack
Flange nut**

Art. No. 120813

EAN Number
5702661208133



**TD88 std. RAL 7035,
100 pcs. bulk pack
Flange nut**

Art. No. 120823

EAN Number
5702661208232



**TD88 std. RAL 7016,
100 pcs. bulk pack
Wing nut**

Art. No. 120814

EAN Number
5702661208140



**TD88 std. RAL 7035,
100 pcs. bulk pack
Wing nut**

Art. No. 120824

EAN Number
5702661208249

TECHNICAL DATA	TD 88 Singlepack	TD 88 Bulk Singlepack
Art. no.	120811/120812 120821/120822	120813/120814 120823/120824
CHARACTERISTICS		
Elevation range	10-60°	10-60°
G/T LNB 0.7	19.2dB/K	19.2dB/K
X-polarisation	>27dB	>27dB
Offset angle	26°	26°
FREQUENCY		
Frequency range	10.7 - 12.75GHz	10.7 - 12.75GHz
GAIN		
Gain @ 11.7 GHz	38.8dBi	38.8dBi
MECHANICAL		
Net Weight	5,800kg	5,800kg
Packing QTY	1	100
Remarks	Singlepacked	Bulk Singlepacked
Material	Galvanized Steel	Galvanized Steel
Height (cm)	95cm	95cm
Width (cm)	85cm	85cm
LNB holder	23-40mm / Black	23-40mm / Black
Mast bracket diameter	<60mm	<60mm
Reflector type	Offset	Offset
Beamwidth	2.0°	2.0°
Windload @ 42 m/s	902N	902N
Dish colour	RAL 7016 RAL 7035	RAL 7016 RAL 7035
Arm colour	raw	raw
Back structure colour	raw	raw
Dimensions carton (H x D x W)	937 x 942 x 150	937 x 942 x 150
Finish	Polyester powder coat	Polyester powder coat

TRIAX® TD 110 series single pack

high quality satellite dishes



**TD110 std RAL 7016,
singlepack - Flange nut**

Art. No. 120111

EAN Number
5702661201110



**TD110 std RAL 7016,
singlepack - Wing nut**

Art. No. 120112

EAN Number
5702661201127



**TD110 std RAL 7035,
singlepack - Flange nut**

Art. No. 120121

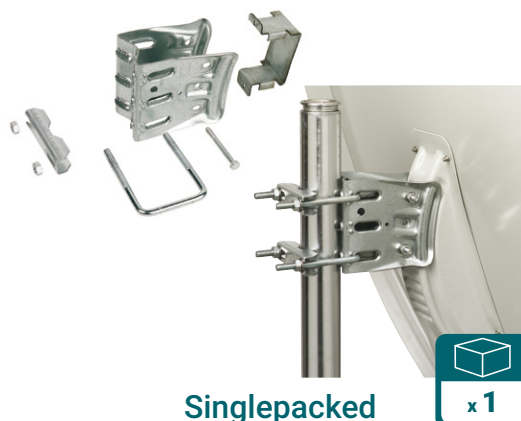
EAN Number
5702661201219



**TD110 std RAL 7035,
singlepack - Wing nut**

Art. No. 120122

EAN Number
5702661201226



Singlepacked

x 1



Bulk Singlepacked

x 50

TRIAX® TD 110 series bulk pack

high quality satellite dishes



**TD110 std RAL 7016,
50 pcs. bulk pack
Flange nut**

Art. No. 120113

EAN Number
5702661201134



**TD110 std RAL 7035,
50 pcs. bulk pack
Flange nut**

Art. No. 120123

EAN Number
5702661201233



**TD110 std RAL 7016,
50 pcs. bulk pack
Wing nut**

Art. No. 120114

EAN Number
5702661201141



**TD110 std RAL 7035,
50 pcs. bulk pack
Wing nut**

Art. No. 120124

EAN Number
5702661201240

TECHNICAL DATA	TD 110 Singlepack	TD 110 Bulk Singlepack
Art. no.	120111/120112 120121/120122	120113/120114 120123/120124
CHARACTERISTICS		
Elevation range	10-60°	10-60°
G/T LNB 0.7	20.6dB/K	20.6dB/K
X-polarisation	>27dB	>27dB
Offset angle	26°	26°
FREQUENCY		
Frequency range	10.7 - 12.75GHz	10.7 - 12.75GHz
GAIN		
Gain @ 11.7 GHz	40.2dBi	40.2dBi
MECHANICAL		
Net Weight	8,900kg	8,900kg
Packing QTY	1	50
Remarks	Singlepacked	Bulk Singlepacked
Material	Galvanized Steel	Galvanized Steel
Height (cm)	105cm	105cm
Width (cm)	100cm	100cm
LNB holder	23-40mm / Black	23-40mm / Black
Mast bracket diameter	<60mm	<60mm
Reflector type	Offset	Offset
Beamwidth	1.8°	1.8°
Windload @ 42 m/s	1222N	1222N
Dish colour	RAL 7016 RAL 7035	RAL 7016 RAL 7035
Arm colour	raw	raw
Back structure colour	raw	raw
Dimensions carton (H x D x W)	1195 x 1070 x 155	1195 x 1070 x 155
Finish	Polyester powder coat	Polyester powder coat

TRIAX® DAP series

fibre glass dishes



DAP 610 - 60cm - RAL 1013

Art. No. 362610

EAN Number
3700113427899



DAP 611 - 60cm - RAL 7016

Art. No. 362611

EAN Number
3700113427905



DAP 710 - 70cm - RAL 1013

Art. No. 362710

EAN Number
3700113427912



DAP 711 - 70cm - RAL 7016

Art. No. 362711

EAN Number
3700113427929

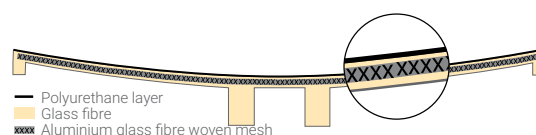


Singlepacked



Glass fibre DAP dishes

Made of polyester reflector with glass fibre, aluminium woven mesh and polyurethane lacquer on the reflector surface – our dishes are designed to survive speeds beyond the ETSI 300784 standard.



TRIAX® DAP series

fibre glass dishes



DAP 910 - 90cm - RAL 1013

Art. No. 362910

EAN Number
3700113427936



DAP 911 - 90cm - RAL 7016

Art. No. 362911

EAN Number
3700113427943

TECHNICAL DATA	DAP 610 - DAP 611	DAP 710 - DAP 711	DAP 910 - DAP 911
Art. no.	362610 362611	362710 362711	369910 362911
CHARACTERISTICS			
Elevation range	10-55°	10-55°	10-55°
G/T LNB 0.7			16.9 dB/K
X-polarisation	> 27dB	> 27dB	> 27dB
Offset angle	26°	26°	26°
FREQUENCY			
Frequency range	10.7 - 12.75GHz	10.7 - 12.75GHz	10.7 - 12.75GHz
GAIN			
Gain @ 12.625 GHz	36.0 dBi	37.3 dBi	39.7 dBi
MECHANICAL			
Net Weight	4.300kg	4.940kg	8.940kg
Packing QTY	1	1	1
Remarks	1 U-Bolt for mast mount	1 U-Bolt for mast mount	2 U-Bolt for mast mount
Material	Fibre glass	Fibre glass	Fibre glass
Height (cm)	61cm	72cm	94cm
Width (cm)	56cm	62.5cm	86cm
LNB holder	Plastic	Plastic	Plastic
Mast bracket diameter	Ø 40-60mm	Ø 40-60mm	Ø 50-60mm
Reflector type	Offset	Offset	Offset
Windload @ 42 m/s	378N	600N	846N
Dish colour	RAL 1013 RAL 7016	RAL 1013 RAL 7016	RAL 1013 RAL 7016
Arm material	Alu	Alu	Alu
Back structure colour	Galv. steel	Galv. steel	Galv. steel
Dimensions carton (H x D x W)	560 x 610	625 x 720	860 x 940
Remarks - 2nd. U bolt		Art. No. 362700	

TRIAX® SAT Fibre Optics

integrated reception systems – remove the limits from your installation

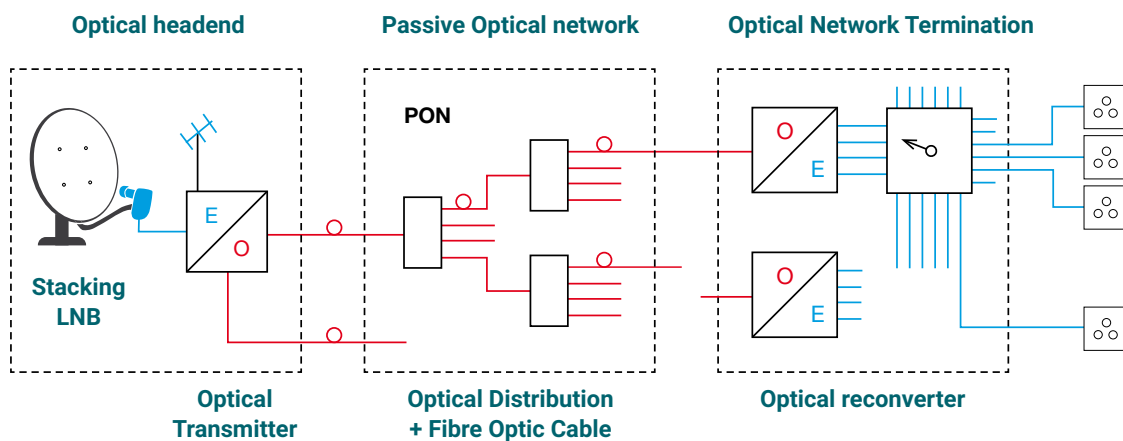


Television at the speed of light – the transmission choice for the future

- SAT IF distribution over fibre optics can supply many households over larger distances, with feed from a central satellite dish station
- Almost lossless transmission of satellite, DVB-T and DAB signals. Attenuation per 1000 m only about 0.3 dB
- Future-proof and widest possible variety of channels
- All 4 SAT IF signals are transmitted over one optical fibre by using a Full Band Stacking LNB
- Space-saving installation – a 3 mm optical fibre replaces five 7 mm coaxial cables
- Optical fibre with galvanic isolation
- Quick and easy installation by using pre-assembled fibre optical cables



Typical structure of optic fibre distribution system



TRIAX[®] SAT Fibre Optics

optical transmission technology – the SAT-TV coverage of tomorrow

Overview of TRIAX products for optical satellite IF transmission technology

System	Opto-LNB	Opto-IRS
Transmission capabilities SAT Terrestrial	1 SAT position/4 polarities -	1 SAT position/4 polarities FM, DTT, DAB
Technical concept	Stacking-LNB included with optical transmitter 1310 nm	Full band stacking-LNB with external optical transmitter 1310 nm
System components Stacking LNB	TOL 32, incl. integrated optical transmitter TOL 64, incl. integrated optical transmitter	TWL 01 with N connector
Optical transmitter		TOU 232 SA with 2 x opt. output 
Optical re-converter	TVC TVQ TOM	TVC TVQ TOM
Components for extension Coaxial Active Splitter		TAS 04 + TUC 02 + TOU 232SA
Opto Repeater	TOE 02 + TOU 232 SA	TOE 02 + TOU 232 SA
Optical budget (max.)	TOL 32: 19 dB TOL 64: 22 dB	2 x 19 dB
Max. optical splitting	TOL 32: 32 TOL 64: 64	2x32 = 64
- with extension 4x (TAS 04+TOU 232SA)		256
- with extension 2x16x (TOE 02+TOU 232 SA)	1024	2048
- in total (TAS 04 + TOE 02)		8192

Key terms

PON

The Passive Optical Network (PON) is the distribution part of the network between optical headend and optical network termination with the Opto-Re-converters. The PON consists of passive fibre optic components, such as fibre cables and optical splitters.

Optical Split

The maximum optical split defines how many fibre lines with an optical termination unit on the optical reception side can be driven from the output of the optical transmitter. The maximum optical split of 32 for a Opto-LNB TOL 32 means that the optical signal can be split to up to 32 fibre lines. Until that symmetrical split, the input signal on the optical reconverters still have a level to provide an electrical output signal in sufficient quality.

Optical Budget

The optical budget is the most important characteristic of an optical link. It defines the upper limit of the insertion loss of a fibre link in the PON.

The insertion loss of a link is the sum of the attenuation of all single network elements like splitters, cables and connectors in an optical link of the PON.

The maximum optical budget defines also the the minimum input level of the optical re-converter. The minimum input level is the optical output power of the in dBm minus the max optical budget.

Example: the optical output power of the Opto-LNB TOL 32 is (+7 dB) and the max optical budgets is 19 dB. Thus the level of the optical signal on the input of the optical reconverter should not be less than 7 dBm - 19 dB = -12 dBm.

The optical budget in this catalogue is the fix specified max. optical link attenuation for all network design. The output power of the transmitters and the minimum input level of the reconverters are for rough information only.

TRIAX® Fibre Optical LNB

stacking LNBs with integrated optical transmitter



Common features

The Opto-LNB consists of a low noise block converter and an optical transmitter. The LNB stacks the 4 SAT-IF-bands into a super broadband IF of 950...5450 MHz frequency range. Thus the 4 SAT-IF-bands can be transmitted over one fibre line.

- Two versions of optical stacking LNBs are available with optical outputs for splitting to max. 32 or 64 fibre links.

- Optical wavelength 1310 nm
- The LNB is powered through the F Type connector or via the included external power supply
- Compatible with optical re-converter TVQ (Quatro) and TVC (Quad) as well as Opto Multiswitch TOM



TOL 32 - Optical SAT Fullband LNB, 32-way

Art. No. 307610

EAN Number
5702663076105

LNB
diametre
Ø40
mm



TOL32/C120 flange, Opt. SAT Fullband LNB, 32-way

Art. No. 307609

EAN Number
5702663076099

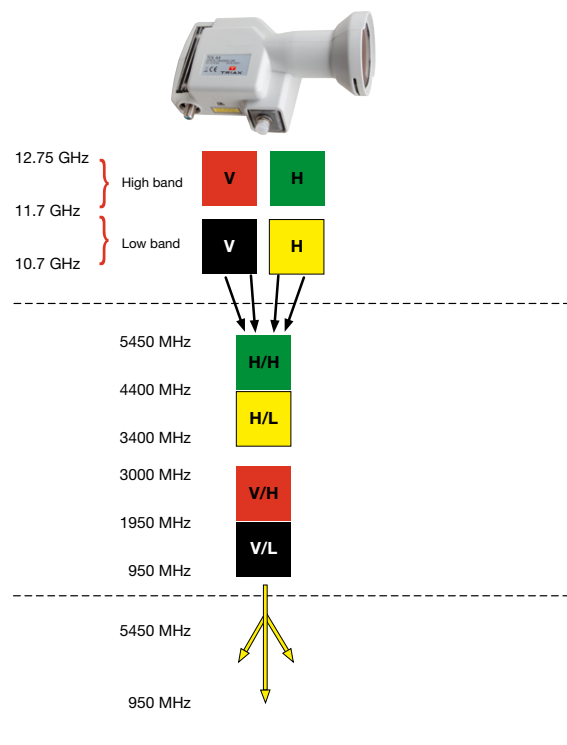


TOL 64 - Optical SAT Fullband LNB, 64-way

Art. No. 307611

EAN Number
5702663076112

LNB
diametre
Ø40
mm



TRIAX® Fibre Optical LNB

Opto-LNB for 1 satellite position, fibre splitting 32/64, 1310 nm.

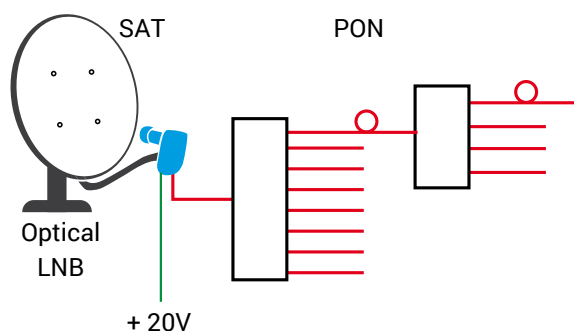


Figure: Optical LNB (LNB with FO output) for a satellite position

Type:	TOL 32 - Optical SAT Fullband LNB, 32-way	TOL32/C120 flange, Opt. SAT Fullband LNB, 32-way	TOL 64 - Optical SAT Fullband LNB, 64-way
Art. no.	307610	307609	307611
OPTICAL CHARACTERISTICS			
Wavelength optical	1310nm	1310nm	1310nm
Optical output level (nom. @ 25 °C)	7.0dBm	7.0dBm	8.5dBm
Optical budget for PON (max.)	19.0dB	19.0dB	22dB
Optical splitting in PON (max.)	32	32	64
CHARACTERISTICS			
Laser class	1M	1M	1M
Feedhorn diameter	40mm	C 120 flange	40mm
Reception frequency range	10.7 - 12.75GHz	10.7 - 12.75GHz	10.7 - 12.75GHz
Reception polarization	horizontal & vertical	horizontal & vertical	horizontal & vertical
SAT-IF vert. band, stacked VL + VH	0.950 - 3.0GHz	0.950 - 3.0GHz	0.950 - 3.0GHz
SAT-IF horiz. band, stacked HL + HH	3.4 - 5.45GHz	3.4 - 5.45GHz	3.4 - 5.45GHz
GAIN			
Gain	62 - 72dB	62 - 72dB	62 - 72dB
Noise figure (typical)	0.5dB	0.7dB	0.5dB
OPERATIONAL			
DC Operating voltage	12VDC	12VDC	20VDC
DC Current consumption (typ.)	< 450mA	< 450mA	< 300mA
External PSU	Included	Included	Included
External PSU item ID	307658 (TPS322)	307658 (TPS322)	307657 (TPS323)
Temperature - operating	-30 ... +60°C	-30 to +60°C	-30 ... +60°C
Temperature - storage	-40 ... +70°C	-40 to +70°C	-40 ... +70°C
Weather Proof Rating	IP 65	IP 65	IP 65
CONNECTORS			
Connector Optical	Optical - FC/PC	Optical - FC/PC	Optical - FC/PC
Connector power supply	F-female	F-female	F-female
MECHANICAL			
Remarks	230 VAC -> 12 VDC/0.5A	230 VAC -> 12 VDC/0.5A	100-250 VAC -> 20 VDC/1.2 A
Dimensions product (H x D x W)	173 x 108 x 68 mm	95 x 108 x 68 mm	173 x 108 x 68 mm
Packing QTY	1	1	1

TRIAX® Integrated Reception System

IRS 1 for 1 SAT-position + DTT/DAB/FM



Common features

- The TOU 232 kit consists of the stacking LNB TWL 01, Optical Transmitter TOU 232 SA (SAT + Terrestrial), N-cable TUC 02 (2m), TAS 04, PSU 20V, Mast mounting plate, terminator.
- The 4 SAT bands are stacked in the full-band LNB TWL 1. The SAT IF signal 950...5450 MHz is connected via the high performance coaxial N-cable TUC to the optical transmitter TOU 232 SA.
- The terrestrial signals are connected to the optical transmitter directly.
- External PSU 20V (included)
- The optical transmitter converts the SAT and Terr signal into 2 optical output signals with 1310 nm wavelength
- Each optical output can be split up to 32 ways with each output feeding a TVC 05/06 or TVQ 05/06 reconverter or a TOM multiswitch
- The optical signal can be split up to 8 x 32 ways by using the active coaxial splitter TAS 04 that can drive up to 4 x TOU 232 SA optical transmitters



TWL 01 - SAT Fullband Stacking LNB

Art. No. 307612

EAN Number
5702663076129



TOU 232 SA - Optical SAT-Fullband transmitter

Art. No. 307615

EAN Number
5702663076150



TOU 232 - Optical Fullband LNB Kit, SAT+TER

Art. No. 307614

EAN Number
5702663076143

TRIAX® Integrated Reception System

IRS 1 for 1 SAT-position + DTT/DAB/FM

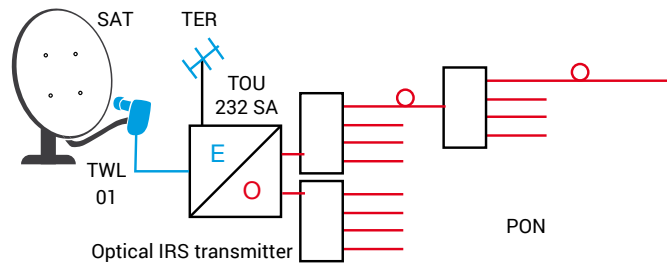


Figure 3:
Optical IRS for a satellite position plus terrestrial

Type:	TWL 01 - SAT Fullband Stacking LNB	TOU 232 - Optical Fullband LNB Kit, SAT+TER	TOU 232 SA - Optical SAT-Fullband transmitter
Art. no.	307612	307614	307615
OPTICAL CHARACTERISTICS			
Wavelength optical		1310nm	1310nm
Optical output level (nom. @ 25 °C)		2 x 7.0dBm	2 x 7.0dBm
Optical budget for PON (max.)		2 x 19.0dB	2 x 19.0dB
Optical splitting in PON (max.)		2 x 32	2 x 32
CHARACTERISTICS			
Laser class		1M	1M
Feedhorn diameter	40mm	40mm	
Reception frequency range	10,7 - 12,75GHz	10.7 - 12.75GHz	
Reception polarization	horizontal & vertical	horizontal & vertical	
SAT-IF, full stacked on coax output	0.95 - 5.450GHz	0.95 - 5.450GHz	
SAT-IF vert. band, stacked VL + VH	0.950 - 3.0GHz	0.950 - 3.0GHz	
SAT-IF hor. band, stacked HL + HH	3.4 - 5.45GHz	3.4 - 5.45GHz	
FREQUENCY			
TER input frequency range DTT		470 - 854MHz	470 - 854MHz
TER input frequency range DAB		213 - 230MHz	213 - 230MHz
TER input frequency range FM		87 - 108MHz	87 - 108MHz
GAIN			
Gain	62 - 72dB	62 - 72dB	
Noise figure (typical)	0.5dB	0.5dB	
TER gain flatness		< 4dB	< 4dB
TER noise figure		< 10dB	< 10dB
OPERATIONAL			
AC Supply voltage		100...250VAC	100...250VAC
DC Operating voltage		20VDC	20VDC
DC Current consumption (typ.)	< 450mA	< 500(incl. LNB)mA	< 500(incl. LNB)mA
External PSU		Included	Included
External PSU item ID		307657 (TPS323)	307657 (TPS323)
Temperature - operating	-30 to +60°C	See kit components	-10 to +50°C
Temperature - storage	-40 to +70°C	See kit components	-30 to +60°C
Weather Proof Rating	IP 65	See kit components	IP 65
CONNECTORS			
Connector Optical		Optical - FC/PC	Optical - FC/PC
Connector SAT-IF	Coaxial N (50 Ohm)	Coaxial N (50 Ohm)	Coaxial N (50 Ohm)
RF inputs		1 x SAT-IF + 1 x TER	1 x SAT-IF + 1 x TER
Connector power supply	N, through SAT-IF out	F-female	F-female
MECHANICAL			
Remote power feeding	-	11.5 VDC/(80 mA)- (LNB feed voltage) 6.2 VDC TER feed - (through TER input)	
Packing QTY	1	1	1
Dimensions product (H x D x W)		See kit components	140 x 145 x 30 mm

*) 6 transponders of digital multiplexes

TRIAX® TAS 04

Expanding the fibre network on the opto-transmitter side



Common features

TAS 04 is an active coaxial splitter driving up to four TOU 232 SA optical transmitters, connected by the TUC 002 N-cable (not supplied)

- Power is supplied via the coaxial cable TUC from the IRS transmitter TOU.
- The optical splitting of an IRS 1 system can be expanded up to $4 \times (2 \times 32) = 256$ by using the TAS 04 connected to 4 x optical transmitter TOU 232 SA.
- The TAS 04 distributor is connected via TUC coaxial cables with the TWL 01 stacking LNB and the TOU IRS-transmitters.
- Active splitter with no insertion loss.



TAS 04 - Active 4-way coax splitter SAT Fullband

Art. No. 307616

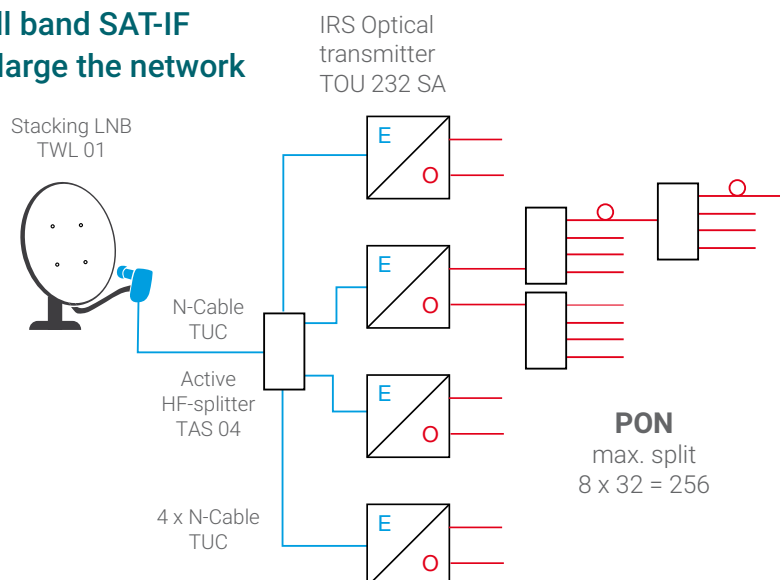
EAN Number
5702663076167

Type:	TAS 04 Active 4-way coax splitter SAT Fullband
Art. no.	307616
GAIN	
Gain	4dB
ELECTRICAL	
Number of RF outputs	4 x SAT-IF
OPERATIONAL	
Temperature - operating	-10 to +50°C
Temperature - storage	-30 to +60°C
CONNECTORS	
Connector SAT-IF	Coaxial N (50 Ohm)
RF inputs	1 x SAT-IF
Connector power supply	N, through SAT-IF out
MECHANICAL	
Packing QTY	1
Dimensions product (H x D x W)	110 x 188 x 38 mm

TRIAX® N-connector

4-way fullband coax splitter

Active splitting of the full band SAT-IF signal with TAS 04 to enlarge the network



TUC 001 - coax cable - N-connector, 0.5m

Art. No. 307601

EAN Number
5702663076013



TUC 005 - coax cable - N-connector, 5.0m

Art. No. 307604

EAN Number
5702663076044



TUC 010 - coax cable - N-connector, 10.0m

Art. No. 307605

EAN Number
5702663076051

Type:	TUC 001 N-cable 0,5m	TUC 005 N connector	TUC 010 N connector
Art. no.	307601	307604	307605
CONNECTORS			
Connector Type	N-connector	N-connector	N-connector
MECHANICAL			
Diameter cable (mm)	10mm	10mm	10mm
Length (m)	0.5m	5.0m	10.0m

TRIAX® Integrated Reception System

Expanding the fibre network by TOE 02 opto-repeater



Common features

The TOE 02 is designed to relaunch the fibre system when the PON cannot be split any further.

The TOE 02 converts the optical signal from the Opto-LNB or IRS1 transmitter into electrical signals for feeding another optical transmitter TOU 232 SA.

- The split of the passive optical network (PON) before the repeater should not be more than 16.
- Expands the optical split of a fibre line up to 2x32.

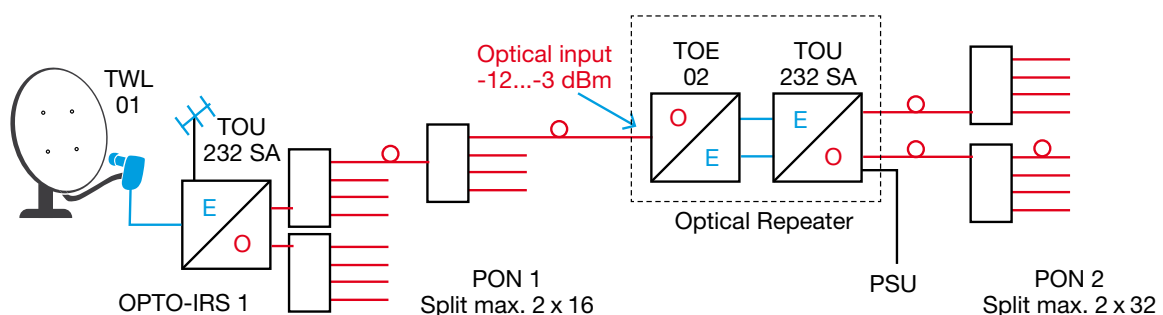
- Maximum of optical split in an IRS 1:
 $2048 = (TOU\ 232=2 \times 16) \times (\text{Repeater TOE 02} + TOU\ 232SA=2 \times 32)$.
- Additional split by factor 4 by use of the TAS 04 active coaxial splitter for driving more IRS1 transmitters (TOU 232SA) can expand the optical split up to 8192.
- Power supply is carried over the coaxial patch cable TUC 02 from the TOU 232 SA.



TOE 02, Opto-to-Electrical Repeater

Art. No. 307694

EAN Number
5702663076945



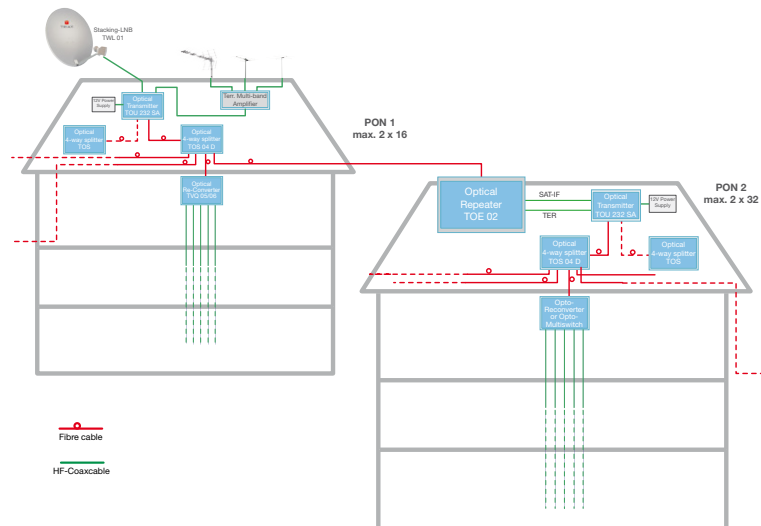
TRIAX® Integrated Reception System

installation example with opto repeater TOE 02 + TOU 232 SA

Expanding the Fibre network by Opto-Repeater for 1xSAT + DTT/DAB/FM

Installation tips

- We recommend using a selective multi-band amplifier like the GNS or TMB to manage the terrestrial signals.
- The network can be extended for a second SAT position by installation of an Opto-LNB with an additional fibre distribution network in parallel.



Type:	TOE 02, Opto-to-Electrical Repeater
Art. no.	307694
OPTICAL CHARACTERISTICS	
Optical input power	-12...-3dBm
Wavelength	1310 / 1550 nm
CHARACTERISTICS	
Output level SAT	80dBμV
Output level DTT (DAB level -14 dB respect to DTT)	87dBμV
SAT-IF range, full stacked on coax output	0.95...5.45GHz
Flatness across band	4 dB
FREQUENCY	
RF frequency range, horizontal polarities	3.4...5.45GHz
RF frequency range, vertical polarities	0.95...3.0GHz
TER frequency range DTT	470...854MHz
TER frequency range DAB	174...240MHz
TER frequency range FM	87...108MHz
RETURN LOSS	
Return Loss	>9.0dB
ELECTRICAL	
Impedance	75 (TER) / 50(SAT)Ω
OPERATIONAL	
DC Operating voltage	10...24VDC
DC Current consumption (typ.)	65@20VDCmA
External PSU	Optional
External PSU item ID	307657 (TPS323-20Vdc/1.2A)
Temperature - operating	-30...+50°C
CONNECTORS	
Input connector	FC/PC - DC: F:female
Output connectors	SAT-IF: N-female, TER: F-female
Connector power supply	F-female
MECHANICAL	
Packing QTY	1
Dimensions product (H x D x W)	160x167x30

TRIAX® Opto-Reconverters

TVC Quad/TVQ Quatro Optical reconverters for Opto-LNB and IRS 1



Common features

The TVC and TVQ Virtual Optical Receiver Nodes are optical-to-coax converters which convert frequency stacked optical signals from an Opto-LNB TOL or a TOU 232-Kit (IRS 1) unit into a legacy universal single coax signal. The converters also provide a coax DTT/DAB/FM signal diplexed onto each output (TVC), or onto a separate output (TVQ), when it is inserted into the TOU 232 SA optical transmitter.

- Compatible with optical LNB TOL 32/64 and optical transmitter TOU 232 kit.
- Two LED indicators display operation status.

- Built in AGC allowing a wide dynamic range of optical signals without impact to output level and quality.
- TVQ 06 output level adjustable by 0, -5, -10 dB.
- Power supply via RF output by SAT receiver (TVC) or by multiswitch (TVQ).
- Optional external power supply for continuous operation available: TPS 323 PSU.
- Attention: please insert an attenuator TFA (5/10/15 dB) if the optical attenuation of the passive optical network (PON) is less than 10 dB.



TVC 06 - Mini Re-converter Quad

Art. No. 307641

EAN Number
5702663076419



TVQ 06 - Mini Re-converter Quatro

Art. No. 307640

EAN Number
5702663076402



TVQ 05, Re-converter Quatro

Art. No. 307629

EAN Number
5702663076297

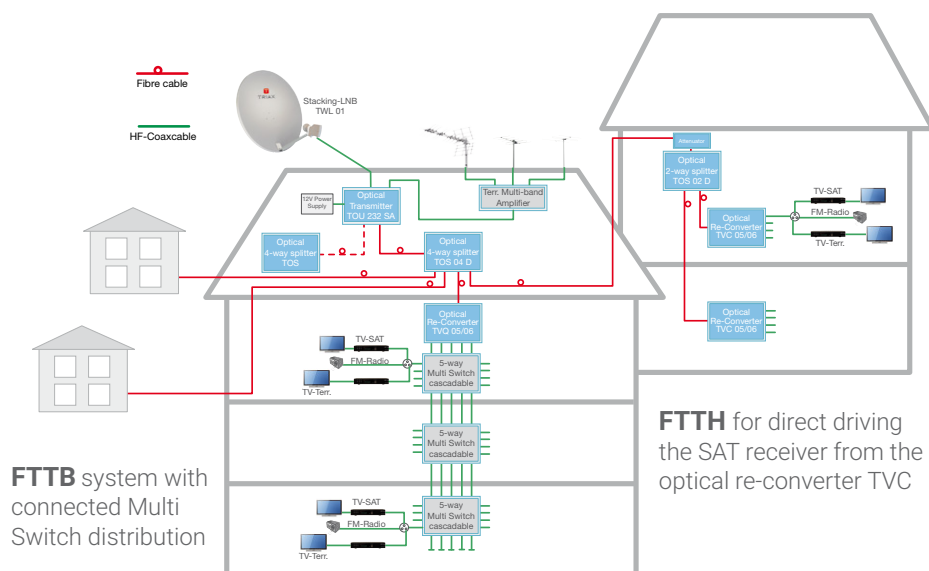


TRIAx® Opto-Reconverters

TVC Quad/TVQ Quatro

Installation tips

- Terrestrial reception should be implemented by a multi-band amplifier from the GNS or TMB series.
- The network can be extended for a second SAT position by installation of an Opto-LNB with an additional fibre distribution network in parallel.



Type:	TVC 06 - Mini Re-converter Quad	TVQ 06 - Mini Re-converter Quatro	TVQ 05, Re-converter Quatro
Art. no.	307641	307640	307629
OPTICAL CHARACTERISTICS			
Wavelength optical	1310/1550nm	1310/1550nm	1310/1550nm
Optical budget for PON (max.)	TOL 32, TOU 232: 19dBm TOL 64: 22dBm	TOL 32, TOU 232: 19 dBm TOL 64: 22dBm	TOL 32, TOU 232: 19 dBm TOL 64: 22dBm
Optical splitting in PON (max.)	TOL 32, TOU 232: 32 TOL 64: 64	TOL 32, TOU 232: 32 TOL 64: 64	
Optical input power	TOL32,TOU232: -12...0dBm TOL 64: -13.5...0dBm	TOL32,TOU232: -12...0dBm TOL 64: -13.5...0dBm	TOL32, TOU232: -12...0dBm TOL64: -13.5...0dBm
CHARACTERISTICS			
Output level SAT	75dBμV	79, switchable to 74 or 69dBμV	70dBμV
Output level TER	65dBμV	75dBμV	68dBμV
FREQUENCY			
RF freq. range, horizontal polarities	3.4...5.45GHz	3.4...5.45GHz	3.4...5.45GHz
RF freq. range, vertical polarities	0.95...3.0GHz	0.95...3.0GHz	0.95...3.0GHz
TER frequency range DTT	470...854MHz	470...854MHz	470...854MHz
TER frequency range DAB	174...241MHz	174...240MHz	174...240MHz
TER frequency range FM	88...108MHz	87...108MHz	87...108MHz
RETURN LOSS			
Return Loss	10dB	10dB	10dB
ELECTRICAL			
Impedance	75Ω	75Ω	75Ω
OPERATIONAL			
DC Operating voltage	10...20VDC	10...20VDC	10...20VDC
DC Current consumption (typ.)	125 (225mA@10V)mA	<400mA	<220@10VDCmA
External PSU	Optional	Optional	Optional
External PSU item ID	307657 (TPS323)	307657 (TPS323)	307657 (TPS323)
Temperature - operating	-10...+60°C	-15...+60°C	-15...+60°C
CONNECTORS			
Input connector	FC/PC	FC/PC	
Output connectors	4xF (4 x SAT+TER)	5xF (4 x SAT/1 x TER)	5xF (4 x SAT/1 x TER)
MECHANICAL			
Packing QTY	1	1	1
Dimensions product (H x D x W)	128x94x27	97x61x26	110x136x50

TRIAX® Opto-Multiswitch

TOM combines the optical reconverter with an integrated multiswitch.



Common features

The Opto Multiswitch features a built-in optical-to-coaxial reconverter. All SAT-IF bands along with Terrestrial signals are available on every output.

The Opto Switch Master is the standalone base unit for the reception of one SAT position and terrestrial broadcast signals. Two versions are available with 8 or 16 outputs.

Reception can be extended to 2, 3 or 4 satellites by plugging additional Opto Switch Slave units into the Opto Switch Master, with additional parallel fibre infrastructure required.

- Compatible with the Optical LNB TOL 32 / TOL 64 or Optical IRS 1 which includes TER (DTT, DAB, FM)
- Very compact form factor
- Ideal for SAT FTTH/FTTB networks: easy and space-saving installation with no coaxial patch cables between reconverter and multi-switch
- Easy upgrade for reception of more than one satellite position.
- Desk top PSU for Master



TOM 08 M, Opto Switch Master 8 way

Art. No. 307697

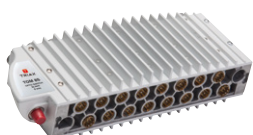
EAN Number
5702663076976



TOM 16 M, Opto Switch Master 16 way

Art. No. 307696

EAN Number
5702663076969



TOM 08 S, Opto Switch Slave 8 way

Art. No. 307699

EAN Number
5702663076990

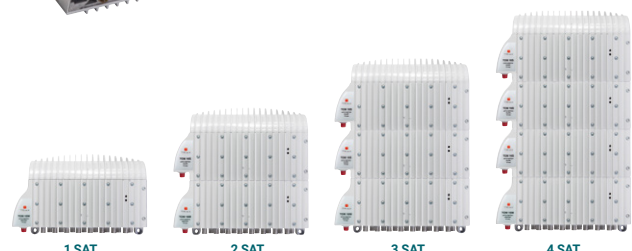


TOM 16 S, Opto Switch Slave 16 way

Art. No. 307698

EAN Number
5702663076983

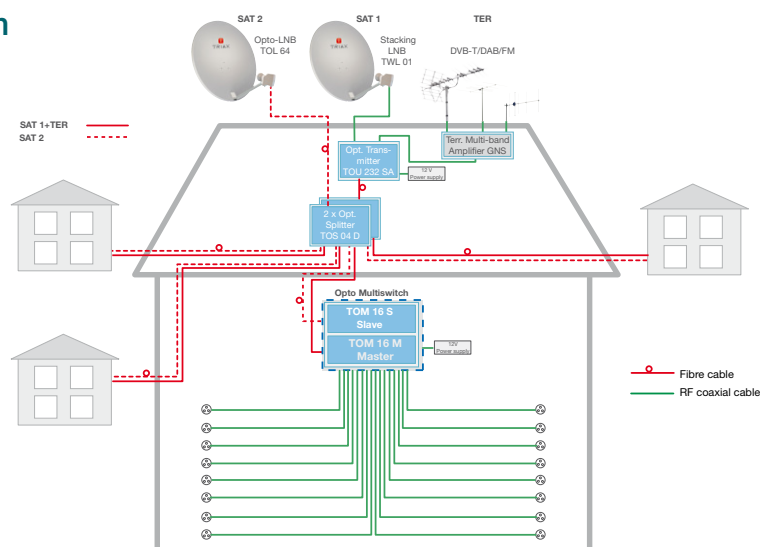
Switch Slaves are plugged on master



TRIAx® Opto-Multiswitch

SwitchMaster and SwitchSlave

System application Opto-Multiswitch for optical distribution of 2xSAT + DTT/DVB/FM



Type:	TOM 08 M, Opto SwitchMaster 8 way	TOM 08 S, Opto SwitchSlave 8 way	TOM 16 M, Opto SwitchMaster 16 way	TOM 16 S, Opto SwitchSlave 16 way
Art. no.	307697	307699	307696	307698
OPTICAL CHARACTERISTICS				
Wavelength	1100...1650nm	1100...1650nm	1100...1650nm	1100...1650nm
Optical input power	-12...-3 (@TOL32, TOU232) -14...-3(@TOL64)dBm	-12...-3 (@TOL32, TOU232) -14...-3(@TOL64)dBm	-12...-3 (@TOL32, TOU232) -14...-3(@TOL64)dBm	-12...-3 (@TOL32, TOU232) -14...-3(@TOL64)dBm
CHARACTERISTICS				
Output level SAT	75dBμV	dBμV	75dBμV	dBμV
Output level TER	69dBμV	dBμV	69dBμV	dBμV
FREQUENCY				
RF frequency range, horizontal polarities	3.4...5.45GHz	3.4...5.45GHz	3.4...5.45GHz	3.4...5.45GHz
RF frequency range, vertical polarities	0.95...3.0GHz	0.95...3.0GHz	0.95...3.0GHz	0.95...3.0GHz
TER frequency range DTT	470...854MHz	MHz	470...854MHz	MHz
TER frequency range DAB	174...241MHz	MHz	174...241MHz	MHz
TER frequency range FM	88...108MHz	MHz	88...108MHz	MHz
RETURN LOSS				
Return Loss	>10dB	>10dB	>10dB	>10dB
ELECTRICAL				
Impedance	75Ω	75Ω	75Ω	75Ω
OPERATIONAL				
AC Supply voltage	100...240VAC		100...240VAC	
DC Operating voltage	12VDC	From Master	12VDC	From Master
DC Current consumption (typ.)	1200mA		1200mA	
External PSU	Included		Included	
Temperature - operating	-20...+50°C	-20...+50°C	-20...+50°C	-20...+50°C
CONNECTORS				
Connector IN	Optical - FC/PC	Optical - FC/PC	Optical - FC/PC	Optical - FC/PC
Connectors OUT	8 x F-f		16 x F-f	
MECHANICAL				
Dimensions product (H x D x W)	227x138x67.5mm	227x95x67.5mm	227x138x67.5mm	227x95x67.5mm

TRIAX® Optical Couplers

passive balanced couplers for optical network



Common features

TOS Optical passive balanced couplers

- For single mode fibre systems
- Excellent mechanical stability
- Low insertion loss

- Coupler Technology
 - FBT (Fused Biconical Tapered)
 - PLC (Planar Lightwave Circuit)



TOS 02D - 2-way FC/PC

Art. No. 307636

EAN Number
5702663076365



TOS 08F, 8-way FC/PC

Art. No. 307737

EAN Number
5702663077379



TOS 03D, 3-way FC/PC

Art. No. 307637

EAN Number
5702663076372



TOS 16F, 16-way FC/PC

Art. No. 307734

EAN Number
5702663077348



TOS 04F, 4-way FC/PC

Art. No. 307736

EAN Number
5702663077362



TOS 32F, 32-way FC/PC

Art. No. 307735

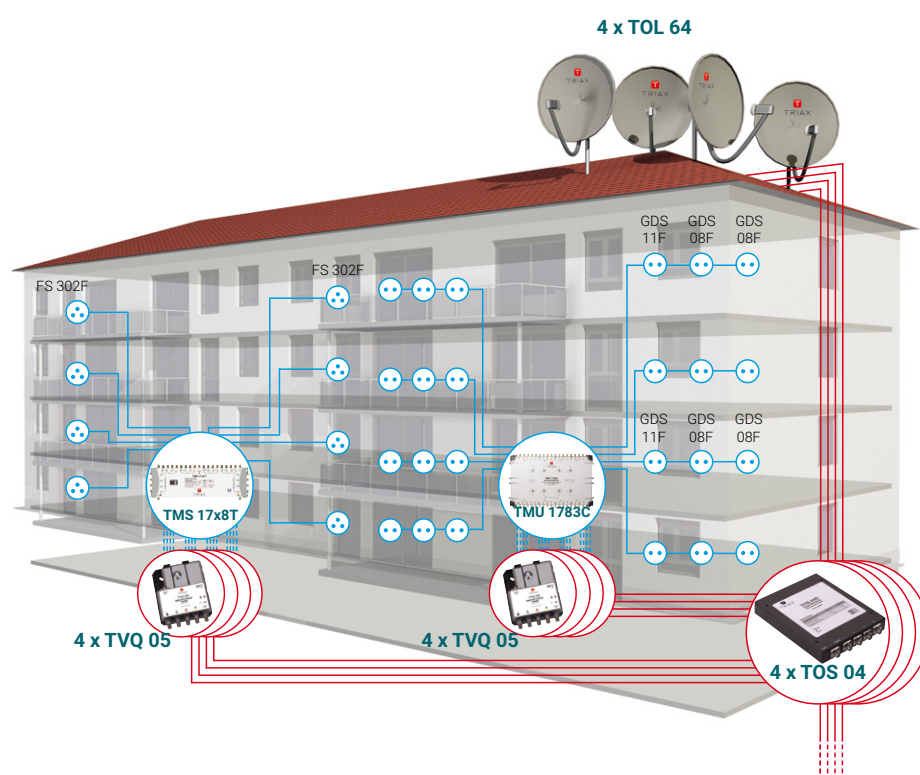
EAN Number
5702663077355

TRIAX® Optical Couplers

passive balanced couplers with FC/PC connectors

Installation example

- Full SAT reception of 4 SAT positions (16 SAT-bands) for every resident from one central satellite dish station
- Each SAT position needs one Opto-LNB connected with a separate passive optical network (PON)
- Scalable from small to very large SMATV networks
- Cost efficient installation and operation
- FTTB combined with
 - Multi-Switches TMS 17xxC or TMS 17xxT
 - Multi-SCR Switches TMM 17x3C
- Terrestrial reception can be implemented by replacing the Opto-LNB with a TOU 232 kit (IRS1)



Type:	TOS 02D	TOS 03D	TOS 04F	TOS 08F	TOS 16F	TOS 32F
	2-way couplers	3-way couplers	4-way couplers	8-way couplers	16-way couplers	32-way couplers
Art. no.	307636	307637	307736	307737	307734	307735
CHARACTERISTICS						
Coupling Ratio	50/50%	33.3/33.3/33.3%	4x25%	8x12.5%	16x6.25%	32x3.125%
Technology	OPTO balanced FBT	OPTO balanced FBT	OPTO balanced PLC	OPTO balanced PLC	OPTO balanced PLC	OPTO balanced PLC
Wavelength	1310/1550nm	1310/1550nm	1260...1650nm	1260...1650nm	1260...1650nm	1260...1650nm
Wavelength bandwidth	± 40MHz	± 40MHz	MHz	MHz	MHz	MHz
LOSS						
Through loss	3.5dB	5.6dB	7.2dB	10.2dB	13.6dB	16.7dB
CONNECTORS						
Connector	Optical - FC/PC	Optical - FC/PC	Optical - FC/PC	Optical - FC/PC	Optical - FC/PC	Optical - FC/PC
Number of inputs	1	1	1	1	1	1
Number of outputs	2	3	4	8	16	32
MECHANICAL						
Dimensions product (H x D x W)	150x20x- 114mm	150x20x- 114mm	150x20x- 114mm	150x20x- 114mm	155x50x- 175mm	155x50x- 175mm
Packing QTY	1	1	1	1	1	1

TRIAX® Optical Couplers

passive balanced couplers with SC/APC connectors



Common features

TOS Optical passive balanced couplers

- For single mode fibre systems
- Excellent mechanical stability
- Low insertion loss

- Coupler Technology
 - FBT (Fused Biconical Tapered)
 - PLC (Planar Lightwave Circuit)



TOS 02S, 2-way SC/APC

Art. No. 307744

EAN Number
5702663077447



TOS 16S, 16-way SC/APC

Art. No. 307747

EAN Number
5702663077478



TOS 04S, 4-way SC/APC

Art. No. 307738

EAN Number
5702663077386



TOS 32S, 32-way SC/APC

Art. No. 307748

EAN Number
5702663077485



TOS 08S, 8-way SC/APC

Art. No. 307739

EAN Number
5702663077393

TRIAX® Optical Couplers

passive balanced couplers with SC/APC connectors

Type:	TOS 02S, 2-way SC/APC	TOS 04S, 4-way SC/APC	TOS 08S, 8-way SC/APC	TOS 16S, 16-way SC/APC	TOS 32S, 32-way SC/APC
Art. no.	307744	307738	307739	307747	307748
CHARACTERISTICS					
Coupling Ratio	50/50%	4x25%	8x12.5%	16x6.25%	32x3.125%
Technology	OPTO balanced FBT	OPTO balanced PLC	OPTO balanced PLC	OPTO balanced PLC	OPTO balanced PLC
Wavelength	1310/1550nm	1260...1650nm	1260...1650nm	1260...1650nm	1260...1650nm
Wavelength bandwidth	± 40MHz				
LOSS					
Insertion loss (typ.)	3.6dB	7.2dB	10.2dB	13.6dB	16.7dB
CONNECTORS					
Connector	Optical - SC/APC	Optical - SC/APC	Optical - SC/APC	Optical - SC/APC	Optical - SC/APC
Number of inputs	1	1	1	1	1
Number of outputs	2	4	8	16	32
MECHANICAL					
Dimensions product (HxDxW)	100x20x100mm	100x20x100mm	100x20x100mm	155x50x175mm	155x50x175mm
Packing QTY	1	1	1	1	1

TOS 02D - 1090 - FC/PC

Art. No. 307730

EAN Number
5702663077300



TOS 02D - 3070 - FC/PC

Art. No. 307732

EAN Number
5702663077324



TOS 02D - 2080 - FC/PC

Art. No. 307731

EAN Number
5702663077317



TOS 02D - 4060 - FC/PC

Art. No. 307733

EAN Number
5702663077331



Type:	TOS 02D 1090 - FC/PC	TOS 02D - 2080 - FC/PC	TOS 02D - 3070 - FC/PC	TOS 02D - 4060 - FC/PC
Art. no.	307730	307731	307732	307733
CHARACTERISTICS				
Coupling Ratio	10/90%	20/80%	30/70%	40/60%
Technology	OPTO unbalanced FBT	OPTO unbalanced FBT	OPTO unbalanced FBT	OPTO unbalanced FBT
Wavelength	1310/1550nm	1310/1550nm	1310/1550nm	1310/1550nm
Wavelength bandwidth	± 40MHz	± 40MHz	± 40MHz	± 40MHz
LOSS				
Insertion loss (typ.)	10.9/0.9dB	7.6/1.5dB	5.8/2.1dB	4.4/2.6dB
CONNECTORS				
Connector	FC/PC	FC/PC	FC/PC	FC/PC
Number of inputs	1	1	1	1
Number of outputs	2	2	2	2
MECHANICAL				
Dimensions product (H x D x W)	150x20x114mm	150x20x114mm	150x20x114mm	150x20x114mm
Packing QTY	1	1	1	1

TRIAX® Fibre Optic Accessories

TFC pre-assembled terminated fibre cables



Common features

Pre-assembled with optical connectors on both sides for easy and reliable installation

- Low attenuation of 0.3 dB per km
- Single-mode fibre G 657A, 9/125 µm

TFC version, suitable for indoor installation

- Crush protection – flexible steel-reinforced intermediate coat protects against pressure loads
- 4 aramid strands for strain relief when laying, maximum tension on the cable: permanently 80N, briefly 100N.



**TFC 01 - Optical patch cable
- FC/PC**

Art. No. 307661

EAN Number
5702663076617



**TFC 10 - Optical patch cable
- FC/PC**

Art. No. 307664

EAN Number
5702663076648



**TFC 03 - Optical patch cable
- FC/PC**

Art. No. 307662

EAN Number
5702663076624



**TFC 15 - Optical patch cable
- FC/PC**

Art. No. 307665

EAN Number
5702663076655



**TFC 05 - Optical patch cable
- FC/PC**

Art. No. 307663

EAN Number
5702663076631



**TFC 20 - Optical patch cable
- FC/PC**

Art. No. 307666

EAN Number
5702663076662

TRIAX® Optical Cables

optical patch cables



TFC 30 - Optical patch cable - FC/PC

Art. No. 307667

EAN Number
5702663076679



TFC 100 - Optical patch cable - FC/PC

Art. No. 307671

EAN Number
5702663076716



TFC 40 - Optical patch cable - FC/PC

Art. No. 307668

EAN Number
5702663076686



TFC 150 Optical patch cable - FC/PC

Art. No. 307660

EAN Number
5702663076600



TFC 50 - Optical patch cable - FC/PC

Art. No. 307669

EAN Number
5702663076693



TFC 200 - Optical patch cable - FC/PC

Art. No. 307672

EAN Number
5702663076723



TFC 75 - Optical patch cable - FC/PC

Art. No. 307670

EAN Number
5702663076709



TFC 500 - Optical patch cable - FC/PC

Art. No. 307675

EAN Number
5702663076754

Type:	TFC 01 FC/PC	TFC 03 FC/PC	TFC 05 FC/PC	TFC 10 FC/PC	TFC 15 FC/PC	TFC 20 FC/PC	TFC 30 FC/PC
Art. no.	307661	307662	307663	307664	307665	307666	307667
OPTICAL CHARACTERISTICS							
Optical Attenuation 1310/1550 nm	0.35/0.25 dB/km	0.35/0.25 dB/km	0.35/0.25 dB/km	0.35/0.25 dB/km	0.35/0.25 dB/km	0.35/0.25 dB/km	0.35/0.25 dB/km
MECHANICAL							
Cable length	1m	3m	5m	10m	15m	20m	30m
Colour	Grey	Grey	Grey	Grey	Grey	Grey	Grey

Type:	TFC 40 FC/PC	TFC 50 FC/PC	TFC 75 FC/PC	TFC 100 FC/PC	TFC 150 FC/PC	TFC 200 FC/PC	TFC 500 FC/PC
Art. no.	307668	307669	307670	307671	307660	307672	307675
OPTICAL CHARACTERISTICS							
Optical Attenuation 1310/1550 nm	0.35/0.25 dB/km	0.35/0.25 dB/km	0.35/0.25 dB/km	0.35/0.25 dB/km	0.35/0.25 dB/km	0.35/0.25 dB/km	0.35/0.25 dB/km
MECHANICAL							
Cable length	40m	50m	75m	100m	150m	200m	500m
Colour	Grey	Grey	Grey	Grey	Grey	Grey	Grey

TRIAX® Optical Cables

fibre burial cable and patch cable for optical networks



Common features

Pre-assembled with optical connectors on both sides for easy and reliable installation

- Low attenuation of 0.3 dB per km
- Single-mode fibre G 657A, 9/125 µm

TDB version for burial installation.

Extremely resistant PE sheath, UV-resistant

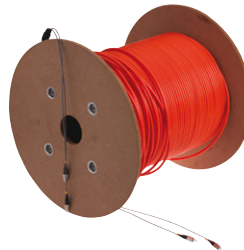
- Aramid reinforced inserts allow high max. tensile forces: 1500N briefly, permanently 600N
- Gel insert to protect from moisture
- Without steel reinforcement



TDB 050 Fibre burial cable - twin core

Art. No. 307760

EAN Number
5702663077607



TDB 200 Fibre burial cable - twin core

Art. No. 307762

EAN Number
5702663077621



TDB 100 Fibre burial cable - twin core

Art. No. 307761

EAN Number
5702663077614

Type:	TDB 050 Fibre burial cable - twin core	TDB 100 Fibre burial cable - twin core	TDB 200 Fibre burial cable - twin core
Art. no.	307760	307761	307762
LOSS			
Optical Attenuation			
1310/1550 nm	0.35/0.25 dB/km	0.35/0.25 dB/km	0.35/0.25 dB/km
CONNECTORS			
Connector Optical	FC/PC	FC/PC	FC/PC
MECHANICAL			
Jacket	Extremely resistant PE sheath, UV-resistant		
Diameter (mm)	5.9mm	5.9mm	5.9mm
Length (m)	50m	100m	200m

TRIAX® Optical Cables

adapter cables and pigtails



**Optical patch cable
SC/APC - SC/PC**

Art. No. 307577

EAN Number
5702663075771



**Optical patch cable,
Steel reinforced - Ø 3 mm
- SC/APC - SC/APC**

Art. No. 307580

EAN Number
5702663075801



**Optical patch cable
FC/PC - SC/PC**

Art. No. 307578

EAN Number
5702663075788



**Optical Pigtail - Ø 3mm
FC/PC**

Art. No. 307581

EAN Number
5702663075818



**Optical patch cable
SC/APC - FC/PC**

Art. No. 307579

EAN Number
5702663075795



**Optical Pigtail - Ø 3mm
SC/APC**

Art. No. 307584

EAN Number
5702663075849



**Optical patch cable - Ø 3mm
- FC/PC - SC/APC**

Art. No. 307582

EAN Number
5702663075825

Type:	Optical patch cable SC/APC - SC/PC	Optical patch cable FC/PC - SC/PC	Optical patch cable SC/APC - FC/PC	Optical patch cable SC/APC - SC/APC	Optical Pigtail cable FC/PC	Optical patch cable FC/PC - SC/APC
Art. no.	307577	307578	307579	307580	307581	307582
CONNECTORS						
Connector Optical in						
Connector Optical out						
Connector Type	SC/APC - SC/PC	FC/PC - SC/PC	SC/APC - SC/PC	SC/APC - SC/PC	FC/PC	FC/PC - SC/APC
MECHANICAL						
Colour	Yellow	Yellow	Yellow	Grey	Grey	Grey
Diameter cable (mm)	2.5 mm	2.5 mm	2.5 mm	3mm	3mm	3mm
Length (m)	1m	1m	1m	2m	1m	2m

TRIAX[®] Opto-Accessories

fibre attenuators, terminators, adaptors & tools

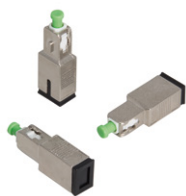


Common features

Accessories for professional installation and service of optical products. To make your own cable configuration, we supply a professional range of connectors and tools:

- Pigtails for fuse splicing to single mode fibre cables
- Adapters to patch FC/PC or SC/PC connectors
- Optical attenuators for reducing the input level to the optical receivers

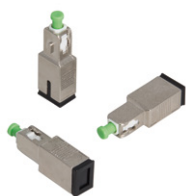
Attenuators



TFA 03 SC/APC, opt. att 3dB

Art. No. 307001

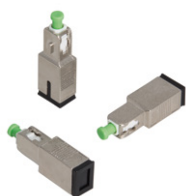
EAN Number
5702663070011



TFA 05 SC/APC, opt.att 5dB

Art. No. 307002

EAN Number
5702663070028



TFA 10 SC/APC, opt.att 10dB

Art. No. 307003

EAN Number
5702663070035



TFA 05 - FC/PC Optical attenuator - 5dB

Art. No. 307688

EAN Number
5702663076884



TFA10 - FC/PC Optical attenuator - 10dB

Art. No. 307690

EAN Number
5702663076907



TFA 15 - FC/PC Optical attenuator - 15dB

Art. No. 307692

EAN Number
5702663076921

TRIAX[®] Opto-Accessories

fibre attenuators, terminators, adaptors & tools

Terminator & adaptor



TOT 02 - FC/PC
Optical Terminator

Art. No. 307644

EAN Number
5702663076440



TFB 002 - FC/PC-SC/PC
Barrel adaptor

Art. No. 307686

EAN Number
5702663076860



TFB 001 - FC/PC-FC/PC
Barrel adaptor

Art. No. 307684

EAN Number
5702663076846

TRIAX® State of the art LNB units

the best choice for satellite TV reception



Keep TV screen images sharp – use Triax Universal LNBs

Our complete range of LNB units use the latest cutting-edge RF technology to meet the most critical demands in today's market. You are guaranteed extremely low noise in both high and low band – and excellent cross polar isolation.

Our comprehensive range includes:

- Universal Single LNB
- Universal Twin LNB
- Universal Quad LNB
- Universal Quattro LNB
- Universal Octo LNB
- Triax fibre optical LNB
- Triax SCR LNB

- Available as single, dual and quad for 1, 2, 4 or 8 set top boxes
- Available in Quattro version for multi switch systems
- Full ku-band coverage for both analogue and digital reception
- Excellent noise figures and low phase noise
- High gain and excellent cross-pole isolation (typically >25 dB)
- High output and low power consumption
- Waterproof and qualified for harsh environments
- Flexible packaging : Single packed, bulk packed or packed together with dishes

Universal Single LNB

For the typical private home installation with 1 set-top box



Universal Twin LNB

For connection to two separate set-top boxes in individual homes, or for example in semi-detached houses.



TRIAX® LNB Units

universal single, twin, quad, quattro, octo, SCR and fibre

Universal Quad LNB

For connection to four separate boxes, for example in a multiapartment house.



Triax SCR LNB

From just one Triax SCR LNB you can distribute up to 4 individual signals/user bands – in a single cable – to 4 different set-top boxes.

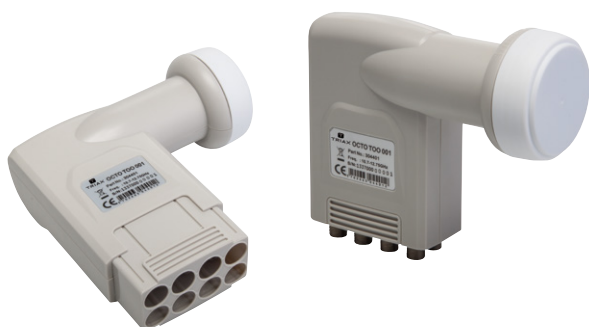
In other words:

- less wiring,
- faster installation
- more users.



Universal Octo LNB

For MATV/SMATV installations. This LNB is compatible with any kind of multi switch. For connection to eight separate set-top boxes in individual homes or for example in semi-detached houses.

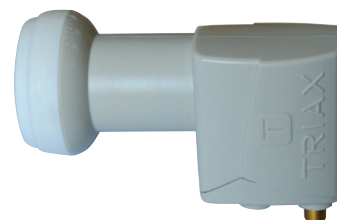


Triax dCSS LNB

From just one Triax SCR LNB you can distribute up to 24 individual signals/user bands – in a single cable – to 24 different set-top boxes.

In other words:

- less wiring,
- faster installation
- even more users.



Universal Quattro LNB

For MATV/SMATV installations. This LNB is compatible with any kind of multi switch.



Fiber optical reception with TRIAX TOL32 optical LNB

A high quality, high performance universal LNB, that offers the end user the perfect set-top box signal – even if the signal distribution has to cover long distances. In addition to the excellent LNB performance, it provides a 1310 nm wideband optical output where all four satellite polarities are stacked into one frequency range (950-5450 MHz).



TRIAX® Universal Single LNB

for the typical private home installation



Common features

Complete range of Universal Single LNB, adopting the latest cutting-edge RF technology

- Full KU-band coverage for both digital and analogue reception.
- Excellent noise figure and low phase noise. High gain and excellent cross-pole isolation. Waterproof.
- High output and low power consumption.

- Flat gain.
- For 1 set-top box.
- Weather protection included.
- Colour options:
 - RAL 7035 Light grey or
 - RAL 7016 Anthracite grey.
- Single packed in gift box.



CS 300 S Universal Single LNB, RAL 7035

Art. No. 350041

EAN Number
5702663500419



TMB 002 Universal Single LNB, 6° Monoblock, RAL 7035

Art. No. 300439

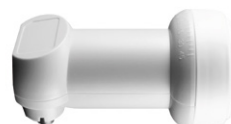
EAN Number
5702663004399



THSI 01 Universal Single LNB, High Gain +5 dB, RAL 7035

Art. No. 304480

EAN Number
5702663044807



TSI 006 Universal Single LNB, RAL 7035

Art. No. 304432

EAN Number
5702663044326



TISI 001 Universal Single LNB, Slim Line, RAL 7035

Art. No. 304474

EAN Number
5702663044746



TSI 007 Universal Single LNB, RAL 7016

Art. No. 304434

EAN Number
5702663044340

TRIAX® Universal Single LNB

for the typical private home installation

Type:	CS 300 S RAL 7035	THSI 01 High Gain +5 dB	TISI 001 Slim Line	TMB 002 6° Monoblock	TSI 006 RAL 7035	TSI 007 U RAL 7016
Art. no.	350041	304480	304474	300439	304432	304434
CHARACTERISTICS						
Phase noise @ 1 kHz	- 50dBc/Hz	- 50dBc/Hz	- 50dBc/Hz	- 60dBc/Hz	- 50dBc/Hz	
Phase noise @ 10 kHz	- 80dBc/Hz	- 75dBc/Hz	- 75dBc/Hz	- 80dBc/Hz	- 75dBc/Hz	
Phase noise @ 100 kHz	- 100dBc/Hz	- 95dBc/Hz	- 95dBc/Hz	- 100dBc/Hz	- 95dBc/Hz	
Spurious level	- 65 (max.)dBm	- 60 (max.)dBm	- 60 (max.)dBm	- 60 (max.)dBm	- 60 (max.)dBm	
Image rejection (min.)	40dB	40dB	40dB	40dB	40dB	
Feedhorn F/D @ 11.7	0.615	0.615	0.615	0.615	0.615	
Frequency stability (-40 ~ +60 °C)	± 2.5:1MHz	± 2.1:1MHz	± 2.1:1MHz	± 2.0:1MHz	± 2.1:1MHz	
Switching position		nonenone	nonenone	DiSEqC 2.0	nonenone	
Switching low band	0.0kHz	0.0kHz	0.0kHz	0.0kHz	0.0kHz	
Switching high band	22 (± 4)kHz	22 (± 4)kHz	22 (± 4)kHz	22 (± 4)kHz	22 (± 4)kHz	
FREQUENCY						
Output frequency high band	1100 - 2150GHz	1100 - 2150GHz	1100 - 2150GHz	1100 - 2150GHz	1100 - 2150GHz	
Output frequency low band	950 - 1950GHz	950 - 1950GHz	950 - 1950GHz	950 - 1950GHz	950 - 1950GHz	
LO frequency high band	10.6GHz	10.6GHz	10.6GHz	10.6GHz	10.6GHz	
LO frequency low band	9.75GHz	9.75GHz	9.75GHz	9.75GHz	9.75GHz	
Input frequency high band	11.7 - 12.75GHz	11.7 - 12.75GHz	11.7 - 12.75GHz	11.7 - 12.75GHz	11.7 - 12.75GHz	
Input frequency low band	10.7 - 11.7GHz	10.7 - 11.7GHz	10.7 - 11.7GHz	10.7 - 11.7GHz	10.7 - 11.7GHz	
GAIN						
Gain flatness (across 26 MHz segm)	± 0.5 (typ.)dB	± 1.0 (typ.)dB	± 1.0 (typ.)dB	± 1.0 (typ.)dB	± 1.0 (typ.)dB	
Gain variation (over operating band)	5 p-p (typ.)	5 p-p (typ.)	5 p-p (typ.)	5 p-p (typ.)	5 p-p (typ.)	
Conversion gain (max.)		68dB		62dB	62dB	
Conversion gain (min.)		55dB		50dB	50dB	
Conversion gain (typ.)	56dB		56dB			
Noise figure max.	0.3dB	0.3dB	0.3dB	0.3dB	0.3dB	
ISOLATION						
Cross polarization isolation	25 typ.dB	25 typ.dB	25 typ.dB	25 typ.dB	25 typ.dB	
OPERATIONAL						
AC Supply voltage	VAC	VAC	VAC	VAC	VAC	
DC Operating voltage	VDC	VDC	VDC	VDC	VDC	
DC Current consumption (typ.)	110mA	100mA	190mA	110mA	100mA	
Operating voltage vertical	10.5 ~ 14.5V/DC	15.5 ~ 21.0V/DC	15.5 ~ 21.0V/DC	10.5 ~ 14.5V/DC	15.5 ~ 21.0V/DC	
Operating voltage horizontal	15.5 ~ 21.0V/DC	10.5 ~ 14.5V/DC	10.5 ~ 14.5V/DC	15.5 ~ 21.0V/DC	10.5 ~ 14.5V/DC	
Operating temperature range	-40 ~ +60°C	-40 ~ +60°C	-40 ~ +60°C	-40 ~ +60°C	-40 ~ +60°C	
CONNECTORS						
Connector Type	F-female	F-female	F-female	F-female	F-female (IEC 61 169-24)	
MECHANICAL						
Packing QTY	50	50	50	30	50	
Max. depth incl. feedhorn	112mm	135mm	135mm	145mm	135mm	
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7016
Diameter	Ø 40mm	Ø 40mm	Ø 40mm	Ø 40mm	Ø 40mm	
Height (mm)	59mm	137mm	137mm	137mm	137mm	
Depth (mm)	112mm	97mm	97mm	97mm	97mm	
Width (mm)	59mm	59mm	59mm	140mm	40mm	
Weight (kg)	0.120	0.120	0.210	0.375	0.120	

TRIAX® Universal Twin LNB

for connection to two separate set-top boxes



Common features

Complete range of TWIN LNB units, adopting the latest cutting-edge RF technology

- Full Ku-band coverage for analogue/digital reception
- Excellent noise figure and low phase noise
- High gain and excellent cross-pole isolation
- High output and low power consumption
- Gain flatness
- For 2 or 4 set-top boxes
- Supplied sliding cover
- Available in 2 colours
- Single packed in gift box

TITW 001 Universal Twin, Slim Line, RAL 7035

Art. No. 304475

EAN Number
5702663044753



TTW 006 Universal Twin, RAL 7035

Art. No. 304436

EAN Number
5702663044364



CS 320 T Universal Twin, RAL 7035

Art. No. 350042

EAN Number
5702663500426



TTW 007 Universal Twin, RAL 7016

Art. No. 304438

EAN Number
5702663044388



THTW 01 High Gain TWIN LNB

Art. No. 304466

EAN Number
5702663044661



TRIAX® Universal Twin LNB

for connection to two separate set-top boxes

Type:	TITW 001 Universal Twin, Slim Line RAL 7035	CS 320 T Universal Twin, RAL 7035	THTW 01 High Gain TWIN LNB	TTW 006 Universal Twin, RAL 7035	TTW 007 Universal Twin, RAL 7016
Art. no.	304475	350042	304466	304436	304438
CHARACTERISTICS					
Phase noise @ 1 kHz	- 50dBc/Hz	- 60dBc/Hz	- 60dBc/Hz	- 50dBc/Hz	- 50dBc/Hz
Phase noise @ 10 kHz	- 75dBc/Hz	- 80dBc/Hz	- 75dBc/Hz	- 75dBc/Hz	- 75dBc/Hz
Phase noise @ 100 kHz	- 95dBc/Hz	- 100dBc/Hz	- 100dBc/Hz	- 95dBc/Hz	- 95dBc/Hz
Spurious level	- 60 (max.)dBm	- 60 (max.)dBm	- 30 (max.)dBm	- 60 (max.)dBm	- 60 (max.)dBm
Image rejection (min.)	40dBdB	40dBdB	35dBdB	40dBdB	40dBdB
Feedhorn F/D @ 11.7	0.615	0.615	0.6	0.615	0.615
LO temperature drifting	± 1/± 3 MHz				
Frequency stability (-40 ~ +60 °C)	± 2.1:1MHz	± 2.0:1MHz	MHz	± 2.1:1MHz	± 2.1:1MHz
Switching position	nonenone	nonenone		nonenone	nonenone
Switching low band	0.0kHz	0.0kHz	0.0kHz	0.0kHz	0.0kHz
Switching high band	22 (± 4)kHz	22 (± 4)kHz	22 (± 4)kHz	22 (± 4)kHz	22 (± 4)kHz
FREQUENCY					
Output frequency high band	1100 - 2150GHz	1100 - 2150GHz	1100 - 2150GHz	1100 - 2150GHz	1100 - 2150GHz
Output frequency low band	950 - 1950GHz	950 - 1950GHz	950 - 2150GHz	950 - 1950GHz	950 - 1950GHz
LO frequency high band	10.6GHz	10.6GHz	10.6GHz	10.6GHz	10.6GHz
LO frequency low band	9.75GHz	9.75GHz	9.75GHz	9.75GHz	9.75GHz
Input frequency high band	11.7 - 12.75GHz	11.7 - 12.75GHz	11.7 - 12.75GHz	11.7 - 12.75GHz	11.7 - 12.75GHz
Input frequency low band	10.7 - 11.7GHz	10.7 - 11.7GHz	10.7 - 11.7GHz	10.7 - 11.7GHz	10.7 - 11.7GHz
GAIN					
Gain flatness (across 26 MHz segm)	± 1.0 (typ.)dB	± 1.0 (typ.)dB	± 1.5 (typ.)dB	± 1.0 (typ.)dB	± 1.0 (typ.)dB
Gain variation (over operating band)	5 p-p (typ.)	5 p-p (typ.)		5 p-p (typ.)	5 p-p (typ.)
Conversion gain (max.)		62dB	76dB	64dB	64dB
Conversion gain (min.)		50dB	58dB	50dB	50dB
Conversion gain (typ.)	56dB	56dB	67dB	dB	dB
Noise figure max.	0.3dB	0.3dB	0.8dB	0.3dB	0.3dB
ISOLATION					
Cross polarization isolation	25 typ.dB	25 typ.dB	18/20 typ.dB	25 typ.dB	25 typ.dB
OPERATIONAL					
AC Supply voltage	VAC	VAC	VAC	VAC	VAC
DC Operating voltage	VDC	VDC	10.5 - 21VDC	VDC	VDC
DC Current consumption (typ.)	190mA	140mA	170mA	170mA	170mA
Operating voltage vertical	15.5 ~ 21.0V/DC	10.5 ~ 14.5V/DC	10.5 ~ 14.5V/DC	15.5 ~ 21.0V/DC	15.5 ~ 21.0V/DC
Operating voltage horizontal	10.5 ~ 14.5V/DC	15.5 ~ 21V/DC	15.5 ~ 21.0V/DC	10.5 ~ 14.5V/DC	10.5 ~ 14.5V/DC
Operating temperature range	-40 ~ +60°C	-40 ~ +60°C	-40 ~ +60°C	-40 ~ +60°C	-40 ~ +60°C
CONNECTORS					
Connector Type	F-female	F-female	F-female	F-female	F-female
MECHANICAL					
Packing QTY	50	50		50	50
Max. depth incl. feedhorn	135mm	145mm	mm	135mm	135mm
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7016
Diameter	Ø 40mm	Ø 40mm	Ø 40mm	Ø 40mm	Ø 40mm
Height (mm)	137mm	137mm		137mm	137mm
Depth (mm)	97mm	97mm		97mm	97mm
Width (mm)	59mm	59mm		59mm	59mm
Weight (kg)					

TRIAX® Universal Quad LNB

for connection to four separate set-top boxes



Common features

Complete range of QUAD LNB units, adopting the latest cutting-edge RF technology.

- Full Ku-band coverage for analogue/digital reception
- Excellent noise figure and low phase noise
- High gain and excellent cross-pole isolation
- High output and low power consumption

- Gain flatness
- For up to 4 set-top boxes
- Supplied sliding cover
- Available in 2 colours
- Single packed in gift box



CS 404 QS Universal Quad LNB, RAL 7035

Art. No. 350043

EAN Number
5702663500433



TQD 007 - Elliptical Quad LNB - for Mk4 elliptical satellite dish, RAL 7016

Art. No. 304444

EAN Number
5702663044449



TIQD 001 Universal Quad LNB, Slim Line, RAL 7035

Art. No. 304476

EAN Number
5702663044760



CS 504 QST Universal Quattro LNB

Art. No. 350046

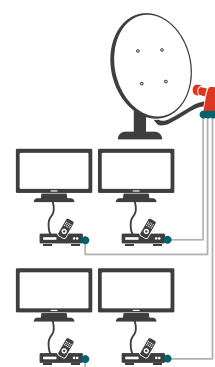
EAN Number
5702663500464



TQD 006 Universal Quad LNB, RAL 7035

Art. No. 304442

EAN Number
5702663044425



TRIAX® Universal Quad LNB

for connection to four separate set-top boxes

Type:	CS 404 QS Universal Quad LNB, RAL 7035	TIQD 001 Universal Quad LNB, Slim Line, RAL 7035	TQD 006 Universal Quad LNB, RAL 7035	TQD 007 Elliptical Quad LNB - for Mk4 elliptical satellite dish, RAL 7016	CS 504 QST
Art. no.	350043	304476	304442	304444	350046
CHARACTERISTICS					
Phase noise @ 1 kHz	- 60dBc/Hz	- 50dBc/Hz	- 50dBc/Hz	- 50dBc/Hz	
Phase noise @ r10 kHz	- 80dBc/Hz	- 75dBc/Hz	- 75dBc/Hz	- 75dBc/Hz	
Phase noise @ 100 kHz	- 100dBc/Hz	- 95dBc/Hz	- 95dBc/Hz	- 95dBc/Hz	
Spurious level	- 60 (max.)dBm	- 60 (max.)dBm	- 60 (max.)dBm	- 60 (max.)dBm	
Image rejection (min.)	40dB	40dB	40dB	40dB	
Feedhorn F/D @ 11.7	0.615	0.615	0.615	0.615	
Frequency stability (-40 ~ +60 °C)	± 2.0:1MHz	± 2.1:1MHz	± 2.1:1MHz	± 2.1:1MHz	
Switching position	nonenone	nonenone	nonenone	nonenone	
Switching low band	0.0kHz	0.0kHz	0.0kHz	0.0kHz	0kHz
Switching high band	22 (± 4)kHz	22 (± 4)kHz	22 (± 4)kHz	22 (± 4)kHz	22kHz
FREQUENCY					
Output frequency high band	1100 - 2150GHz	1100 - 2150GHz	1100 - 2150GHz	1100 - 2150GHz	1100 - 2150GHz
Output frequency low band	950 - 1950GHz	950 - 1950GHz	950 - 1950GHz	950 - 1950GHz	950 - 1950GHz
LO frequency high band	10.6GHz	10.6GHz	10,60GHz	10.6GHz	10,6GHz
LO frequency low band	9.75GHz	9.75GHz	9,75GHz	9.75GHz	9,75GHz
Input frequency high band	11.7 - 12.75GHz	11.7 - 12.75GHz	11.7 - 12.75GHz	11.7 - 12.75GHz	11,7- 12,75GHz
Input frequency low band	10.7 - 11.7GHz	10.7 - 11.7GHz	10.7 - 11.7GHz	10.7 - 11.7GHz	10,7-11,7GHz
GAIN					
Gain flatness (across 26 MHz segm)	± 1.0 (typ.)dB	± 1.0 (typ.)dB	± 1.0 (typ.)dB	± 1.0 (typ.)dB	± 1.0 (typ.)dB
Gain variation (over operating band)	5 p-p (typ.)	5 p-p (typ.)	5 p-p (typ.)	5 p-p (typ.)	5 p-p (typ.)
Conversion gain (max.)		64dB	64dB	64dB	
Conversion gain (min.)		50dB	50dB	50dB	
Conversion gain (typ.)	56dB				56dB
Noise figure max.	0.3dB	0.3dB	0.3dB	0.3dB	0.3dB
ISOLATION					
Cross polarization isolation	25 typ.dB	25 typ.dB	25 typ.dB	25 typ.dB	20 typ.dB
OPERATIONAL					
DC Current consump.(typ.)	140mA	190mA	180mA	180mA	160mA
Operating voltage vertical	10.5 ~ 14.5V/DC	10.5 ~ 14.5V/DC	10.5 ~ 14.5V/DC	10.5 ~ 14.5V/DC	10.5...21.0VDC
Operating voltage horizontal	15.5 ~ 21V/DC	15.5 ~ 21.0V/DC	15.5 ~ 21.0V/DC	15.5 ~ 21.0V/DC	
Operating temperature range	-40 ~ +60°C	-40 ~ +60°C	-40 ~ +60°C	-40 ~ +60°C	-40 ~ +60°C
CONNECTORS					
Connector Type	F-female	F-female	F-female	F-female	F-female
MECHANICAL					
Packing QTY	50	50	50	50	
Max. depth incl. feedhorn	145mm	135mm	135mm	135mm	
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7016	
Diameter	Ø 40mm	Ø 40mm	Ø 40mm	Ø 40mm	Ø40mm
Height (mm)	137mm	137mm	137mm	137mm	
Depth (mm)	97mm	97mm	97mm	97mm	
Width (mm)	59mm	59mm	59mm	59mm	
Weight (kg)					

TRIAX® Universal Quattro LNB

for MATV/SMATV installations.



Common features

Complete range of QUATTRO LNB units, adopting the latest cutting-edge RF technology.

- Full Ku-band coverage for analogue/digital reception
- Excellent noise figure and low phase noise
- High gain and excellent cross-pole isolation
- High output and low power consumption

- Gain flatness
- For up to 4 set-top boxes
- Supplied sliding cover
- Available in 2 colours
- Single packed in gift box



CS 400 QT Universal Quattro LNB, RAL 7035

Art. No. 350044

EAN Number
5702663500440



TQT 006 Universal Quattro LNB, RAL 7035

Art. No. 304446

EAN Number
5702663044463



THQT 001 Universal Quattro LNB

Art. No. 304486

EAN Number
5702663044869



TQT 007 Universal Quattro LNB, RAL 7016

Art. No. 304449

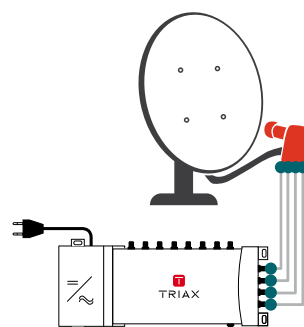
EAN Number
5702663044494



TIQT 001 Universal Quattro LNB, Slim Line, RAL 7035

Art. No. 304477

EAN Number
5702663044777



TRIAX® Universal Quattro LNB

for MATV/SMATV installations.

Type:	CS 400 QT RAL 7035	THQT 001	TIQT 001 Slim Line, RAL 7035	TQT 006 RAL 7035	TQT 007 RAL 7016
Art. no.	350044	304486	304477	304446	304449
CHARACTERISTICS					
Phase noise @ 1 kHz	- 50dBc/Hz		- 50dBc/Hz	- 50dBc/Hz	- 50dBc/Hz
Phase noise @ 10 kHz	- 75dBc/Hz		- 75dBc/Hz	- 75dBc/Hz	- 75dBc/Hz
Phase noise @ 100 kHz	- 95dBc/Hz		- 95dBc/Hz	- 95dBc/Hz	- 95dBc/Hz
Spurious level	- 60(max.)dBm		- 60(max.)dBm	- 60(max.)dBm	- 60(max.)dBm
Image rejection (min.)	40dB		40dB	40dB	40dB
Feedhorn F/D @ 11.7	0.615		0.615	0.615	0.615
LO temperature drifting					
Frequency stability (-40 ~ +60 °C)	± 2.1:1MHz		± 2.1:1MHz	± 2.1:1MHz	± 2.1:1MHz
Switching position	nonenone		nonenone	nonenone	nonenone
Switching low band	0.0kHz		0.0kHz	0.0kHz	0.0kHz
Switching high band	22 (± 4)kHz		22 (± 4)kHz	22 (± 4)kHz	22 (± 4)kHz
FREQUENCY					
Output frequency high band	1100 - 2150GHz	1100 - 2150GHz	1100 - 2150GHz	1100 - 2150GHz	1100 - 2150GHz
Output frequency low band	950 - 1950GHz	950 - 1950GHz	950 - 1950GHz	950 - 1950GHz	950 - 1950GHz
LO frequency high band	10.6GHz	10,6GHz	10.6GHz	10,6GHz	10.6GHz
LO frequency low band	9.75GHz	9,75GHz	9.75GHz	9,75GHz	9.75GHz
Input frequency high band	11.7-12.75GHz	11,7-12,75GHz	11.7-12.75GHz	11.7-2.75GHz	11.7-12.75GHz
Input frequency low band	10.7-11.7GHz	10,,7-1,7GHz	10.7-11.7GHz	10.7-11.7GHz	10.7-11.7GHz
GAIN					
Gain flatness (across 26 MHz segm)	± 1.0 (typ.)dB		± 1.0 (typ.)dB	± 1.0 (typ.)dB	± 1.0 (typ.)dB
Gain variation (over operating band)	5 p-p (typ.)		5 p-p (typ.)	5 p-p (typ.)	5 p-p (typ.)
Conversion gain (max.)		76dB	64dB	64dB	64dB
Conversion gain (min.)			50dB	50dB	50dB
Conversion gain (typ.)	56dB	58dB	dB	dB	dB
Noise figure max.	0.3dB		0.3dB	0.3dB	0.3dB
ISOLATION					
Cross pol. isolation	20 typ.dB		25 typ.dB	25 typ.dB	25 typ.dB
OPERATIONAL					
AC Supply voltage	VAC	VAC	VAC	VAC	VAC
DC Operating voltage	10.5...21.0VDC	10,5...21VDC	10.5...21.0VDC	10.5...21.0VDC	10.5...21.0VDC
DC Current Cons. (typ.)	160mA	190mA	190mA	190mA	190mA
Operating volt. vertical					
Operating volt. horizontal					
Operating temp. range	-40 ~ +60°C	-40 - 60°C	-40 ~ +60°C	-40 ~ +60°C	-40 ~ +60°C
CONNECTORS					
Connector Type	F-female	F-female	F-female	F-female	F-female
MECHANICAL					
Packing QTY	50		50	50	50
Max. depth incl. feedhorn	135mm		135mm	135mm	135mm
Colour	RAL 7035		RAL 7035	RAL 7035	RAL 7016
Diameter	Ø 40mm		Ø 40mm	Ø 40mm	Ø 40mm
Height (mm)	137mm		137mm	137mm	137mm
Depth (mm)	97mm		97mm	97mm	97mm
Width (mm)	59mm		59mm	59mm	59mm
Weight (kg)					

TRIAX® Universal Octo LNB

for MATV/SMATV installations.



Common features

Complete range of OCTO LNB units, adopting the latest cutting-edge RF technology

- Full Ku-band coverage for analogue/digital reception
- Excellent noise figure and low phase noise
- High gain and excellent cross-pole isolation
- High output and low power consumption

- Gain flatness
- TQT for SMATV installation, 4 outputs: VH, VL, HH, HL
- OCTO for 8 set-top boxes
- Supplied sliding cover
- Available in 2 colours
- Single packed in gift box



CS 408 OS Universal Octo LNB, RAL 7035

Art. No. 350045

EAN Number
5702663500457



TOO 001 Universal Octo LNB, RAL 7035

Art. No. 304401

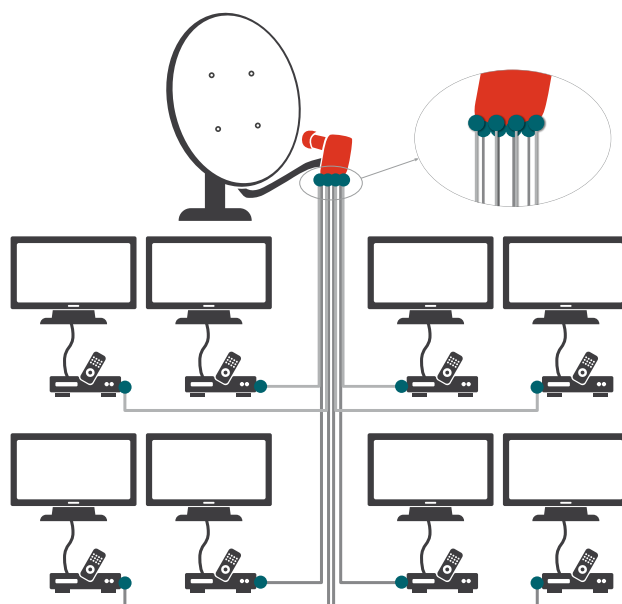
EAN Number
5702663044012



TOT 003 Universal Octo LNB, RAL 7016

Art. No. 304448

EAN Number
5702663044487



TRIAX® Universal Octo LNB

for MATV/SMATV installations.

Type:	CS 408 OS RAL 7035	TOO 001 RAL 7035	TOT 003 RAL 7016
Art. no.	350045	304401	304448
CHARACTERISTICS			
Phase noise @ 1 kHz	- 50dBc/Hz	- 50dBc/Hz	- 50dBc/Hz
Phase noise @ 10 kHz	- 75dBc/Hz	- 75dBc/Hz	- 75dBc/Hz
Phase noise @ 100 kHz	- 95dBc/Hz	- 95dBc/Hz	- 95dBc/Hz
Spurious level	- 60 (max.)dBm	- 60 (max.)dBm	- 60 (max.)dBm
Image rejection (min.)	40dB	40dB	40dB
Feedhorn F/D @ 11.7	0.615	0.615	0.615
Frequency stability (-40 ~ +60 °C)	± 2.1:1MHz	± 2.1:1MHz	± 2.1:1MHz
Switching position	nonenone	nonenone	nonenone
Switching low band	0.0kHz	0.0kHz	0.0kHz
Switching high band	22 (± 4)kHz	22 (± 4)kHz	22 (± 4)kHz
FREQUENCY			
Output frequency high band	1100 - 2150GHz	1100 - 2150GHz	1100 - 2150GHz
Output frequency low band	950 - 1950GHz	950 - 1950GHz	950 - 1950GHz
LO frequency high band	10.6GHz	10.6GHz	10.6GHz
LO frequency low band	9.75GHz	9.75GHz	9.75GHz
Input frequency high band	11.7 - 12.75GHz	11.7 - 12.75GHz	11.7 - 12.75GHz
Input frequency low band	10.7 - 11.7GHz	10.7 - 11.7GHz	10.7 - 11.7GHz
GAIN			
Gain flatness (across 26 MHz segm)	± 1.0 (typ.)dB	± 1.0 (typ.)dB	± 1.0 (typ.)dB
Gain variation (over operating band)	5 p-p (typ.)	5 p-p (typ.)	5 p-p (typ.)
Conversion gain (max.)		50dB	50dB
Conversion gain (min. at room temperature)		62dB	62dB
Conversion gain (typ.)	56dB		
Noise figure max.	0.3dB	0.6dB	0.3dB
ISOLATION			
Cross polarization isolation	25 typ.dB	25 typ.dB	25 typ.dB
OPERATIONAL			
DC Current consump. (typ.)	140mA	180mA	180mA
Operating voltage vertical	15.5 ~ 21.0V/DC	15.5 ~ 21.0V/DC	15.5 ~ 21.0V/DC
Operating voltage horizontal	10.5 ~ 14.5V/DC	10.5 ~ 14.5V/DC	10.5 ~ 14.5V/DC
Operating temperature range	-40 ~ +60°C	-40 ~ +60°C	-40 ~ +60°C
Temperature range	°C	°C	°C
CONNECTORS			
Connector Type	F-female	F-female	F-female
MECHANICAL			
Packing QTY	30	1	50
Max. depth incl. feedhorn	135mm	135mm	135mm
Colour	RAL 7035	RAL 7035	RAL 7016
Diameter	Ø 40mm	Ø 40mm	Ø 40mm
Height (mm)	137mm	137mm	137mm
Depth (mm)	97mm	97mm	97mm
Width (mm)	59mm	59mm	59mm
Weight (kg)	0.134	0.282	0.155

TRIAX® Single Cable Router (SCR) LNB

the standard for single cable distribution



Common features

Using the latest satellite reception and distribution technology, our SCR LNB is the new standard for single cable distribution.

The industry standard CENELEC EN50494 facilitates the delivery of broadcast programming over a single

coaxial cable to multiple users, thus helping to eliminate the numerous coaxial cables previously required to connect satellite PVRs and other high-end set top boxes to the satellite dish.



TSC 001 Single Cable Router LNB - 1 SCR output, 1 universal output

Art. No. 304460

EAN Number
5702663044609



TSC 002 Single Cable Router LNB - 1 SCR output, 2 universal outputs

Art. No. 304461

EAN Number
5702663044616

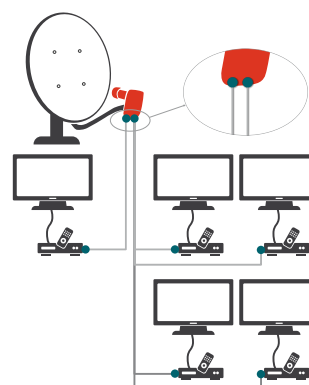


TSI - dcSS Single Cable Router - 1 SCR output, RAL 7035

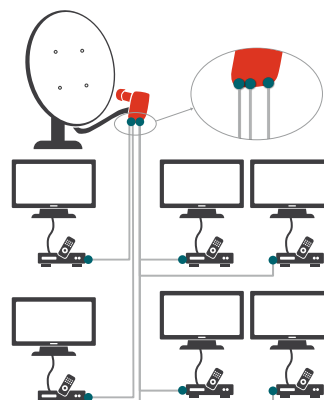
Art. No. 304463

EAN Number
5702663044630

**1 x SCR
1 x Legacy**



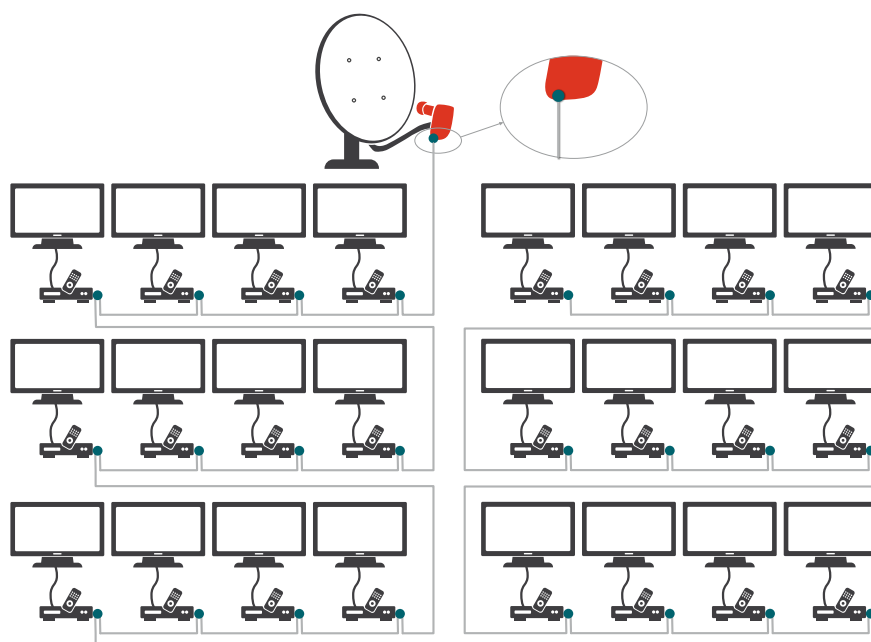
**1 x SCR
2 x Legacy**



TRIAX® Single Cable Router LNB

the standard for single cable distribution

dCSS LNB



Type:	TSC 001 Single Cable Router LNB - 1 SCR output	TSC 002 Single Cable Router LNB - 1 SCR output, 2 universal outputs	TSI - dCSS Single Cable Router 1 SCR output
Art. no.	304460	304461	304463
CHARACTERISTICS			
Phase noise @ 10 kHz	- 80dBc/Hz	- 80dBc/Hz	- 80dBc/Hz
Image rejection (min.)	40dB	40dB	40dB
Output VSWR	2,5 : 1	2,5 : 1	2,3 : 1
FREQUENCY			
Output frequency band	950 ~ 2000GHz	950 ~ 2150GHz	950 ~ 2150GHz
LO frequency high band	10,6GHz	10,6GHz	10,4GHz
LO frequency low band	9,75GHz	9,75GHz	
Input frequency high band	11,7-12,75GHz	11,7-12,75GHz	10,7-12,75GHz
Input frequency low band	10,7-11,7GHz	10,7-11,7GHz	
GAIN			
Gain variation (over operating band)	+/- 0,75	+/- 0,75	
Conversion gain (max.)	60dB	60dB	63-73 (5 or more users)dB
Conversion gain (min.)	50dB	50dB	53-63 (4 or less users)dB
Noise figure max.	0.8dB	dB	0.8dB
ELECTRICAL			
Impedance	75Ω	75Ω	75Ω
OPERATIONAL			
AC Supply voltage	VAC	VAC	10.5 - 21.0VAC
DC Current Cons. (typ.)	mA	mA	350mA
Operating temperature range	°C	°C	-40...-60°C
CONNECTORS			
Connector Type	F-female	F-female	F-female
MECHANICAL			
Packing QTY	1	1	1
Colour	RAL 7035	RAL 7035	
Diameter	Ø 40mm	Ø 40mm	
Weight (kg)	0.134	0.282	

TRIAX® LNB brackets

single and multi satellite reception



Aluminum LNB holder for TD

Art. No. 300721

EAN Number 5702663007215

CHARACTERISTICS

Type Alu bracket TD

MECHANICAL

Colour Alu

LNB size Ø 40mm

Remarks Fits all TD-dishes



TD - 3° DuoBlock

Art. No. 300716

EAN Number 5702663007161

CHARACTERISTICS

Type TD 3° Duo block

MECHANICAL

Colour Black

LNB size Ø 40mm

Remarks Ø 25 mm adaptor - optional extra



Plastic Parts for TD - RAL 7016

Art. No. 129421

EAN Number 5702661294211

CHARACTERISTICS

Type TD plastic spareparts

MECHANICAL

Colour Ral 7016

LNB size Ø 40mm

Remarks For TD64, TD78, TD88, TD110



TD - 6° DuoBlock

Art. No. 300715

EAN Number 5702663007154

CHARACTERISTICS

Type TD 6° Duo block

MECHANICAL

Colour Black

LNB size Ø 40mm

Remarks Ø 25 mm adaptor - optional extra



Plastic Parts for TD - RAL 7030

Art. No. 129420

EAN Number 5702661294204

CHARACTERISTICS

Type Plastic spareparts

MECHANICAL

Colour Ral 7030

LNB size Ø 40mm

Remarks For TD64, TD78, TD88, TD110



TD - 6° DuoBlock

Art. No. 300717

EAN Number 5702663007178

CHARACTERISTICS

Type TD 6° Duo block

MECHANICAL

Colour Grey

LNB size Ø 40mm

Remarks Ø 25 mm adaptor - optional extra



TRIAX® LNB brackets

single and multi satellite reception

Elegant solutions in black or grey – for Ø40 mm LNBs.
Perfect for reception from two satellite positions, e.g.
Eutelsat (Hotbird) and ASTRA, for up to four satellite
positions.

Holds up to four Ø40 mm LNBs – with minimum
4 degrees between the satellite positions.

Also available with complete packaging:
Bracket, LNB units and DiSEqC switch.



TD - 3° - 10° FlexiBlock

Art. No. 300719

EAN Number 5702663007192

CHARACTERISTICS

Type	TD - 3° - 10° FlexiBlock
------	-----------------------------

MECHANICAL

Colour	Black
LNB size	Ø 40mm



MFD 850 DAP

Art. No. 200851

EAN Number 5702662008510

CHARACTERISTICS

Type	6° Multifeed
------	--------------

MECHANICAL

Colour	Black/White
LNB size	Ø 40mm



TD multiblock with 2xLNB and switch

Art. No. 300730

EAN Number 5702663007307

CHARACTERISTICS

Type	TD - 2 LNB Multi block set
------	-------------------------------

MECHANICAL

Colour	Black/Alu
LNB size	Ø 40mm
Remarks	incl. 2xLNB and switch



TD multiblock with 4xLNB and switch

Art. No. 300725

EAN Number 5702663007253

CHARACTERISTICS

Type	TD - 4 LNB Multi block set
------	-------------------------------

MECHANICAL

Colour	Black/Alu
LNB size	Ø 40mm
Remarks	incl. 4xLNB and switch



TD - 3°-20° FlexiBlock - 3xLNB

Art. No. 300728

EAN Number 5702663007284

CHARACTERISTICS

Type	TD - 3°-20° FlexiB- lock - 3xLNB
------	-------------------------------------

MECHANICAL

Colour	Black/Alu
LNB size	Ø 40mm
Remarks	Ø 25 mm adaptor - optional extra



TD - 3°-20° FlexiBlock - 4xLNB

Art. No. 300727

EAN Number 5702663007277

CHARACTERISTICS

Type	TD - 3°-20° FlexiB- lock - 4xLNB
------	-------------------------------------

MECHANICAL

Colour	Black/Alu
LNB size	Ø 40mm
Remarks	Ø 25 mm adaptor - optional extra



TRIAX[®] multiswitch solutions

complete range from 1 to 4 satellite positions & terrestrial



What do you need a multiswitch for ?

- From a technical point of view, multiswitches enable many satellite set-top box users to share a single satellite dish, LNB and cabling installation. Multiswitches are future proofed and can deliver the full signal spectrum, so all users can enjoy full SDTV/HDTV/4K-UHD digital signal quality to a Satellite/Terrestrial set-top box TV.
- From an aesthetical and practical point of view, multiswitches can help you avoid having many dishes on a building, and avoid a lot of unstructured cabling whilst meeting regional planning regulations.

The TRIAX passive multiswitch range now accommodates either Terrestrial or CATV signals, offering the end user alternative subscription services. As these multiswitches are future proofed, the system can be expanded for more users. However, to increase the number of Satellite positions the system would need to be redesigned. Despite their advanced and technical qualities, all TRIAX products are designed to be easily installed.

When should you use a multiswitch ?

- Whenever more than four users have their own individual satellite set-top box and need terrestrial signals, a multiswitch is the best solution for combining the signals onto a single cable.
- When many different channels are required.
- When users live in the same apartment block. The number of satellite positions and polarities, along with user/subscriber outputs, determine the right choice of multiswitch for you. Solutions exist for one to four individual satellite positions or a total of 16 individual satellite polarities. DiSEqC technology is used to select the required satellite.

The TRIAX multiswitch system is the ideal, cost effective solution that offers the end user total flexibility and choice.



TRIAX[®] multiswitch solutions

products for the perfect solution

A complete satellite reception solution

The single most important part of an installation is the quality of the incoming signals. As a minimum, we recommend you use a TD78 or larger satellite dish for optimum signal levels depending upon the geographical location of the installation. It is not recommended to compromise on the size of the dish, as the system is dependent on high quality signals from the outset – to do so could introduce rain fade issues caused by bad weather.

These issues can't be remedied anywhere along the distribution path as the C/N has been affected. Multiswitch systems require the correct size dish, Quattro band LNB and an LTE aerials such as a the TRIAX UNIX range.

Smaller systems for up to 4 users could reuse the Quad LNB alongside the standalone multiswitch series supporting 22kHz tone selection.

A selection of the best



TD DISHES

As a leading satellite dish manufacturer, TRIAX produce sturdy and robust satellite dishes for high quality installations. The TD range come part assembled to reduce installation time and cost.

LNB UNITS

TRIAX LNBs employ the latest technology and meet the highest specifications to ensure low noise and high cross polar rejection.



AERIALS

TRIAX aerials are manufactured to the latest LTE specifications and are tested to a rigorous benchmark standard.



The TRIAX UNIX LTE range ensures maximum gain and rejection, achieving maximum signal transfer from the antenna to amplifiers and switches, so that the MER readings are maintained.

Coaxial cables

The performance of the multiswitch installation relies heavily on the quality of the distribution cable installed to deliver signal levels and immunity to interference. TRIAX supplies a range of high quality coax cables with Class A++ screening.

Fibre Optical cables

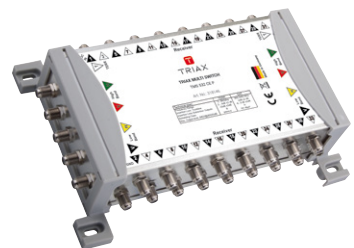
We also have a full range of fibre optic cables to support the range of optical converters and multiswitches. The converters allow the fibre to be converted back to coax and have a traditional multiswitch distribution system.

Multiswitches

A multiswitch device is the rational way of providing satellite signals to multiple (usually more than four or eight) satellite receivers from a single dish and LNB.

Its task is to be „invisible“ to the satellite STB as it mimics all the functions of standard Universal LNB units and, optionally, DiSEqC switches.

Many versions are available to allow you to customise for many particular local needs.



Focus on satellite reception solutions

If a picture is worth a thousand words, this page will save you a lot of reading

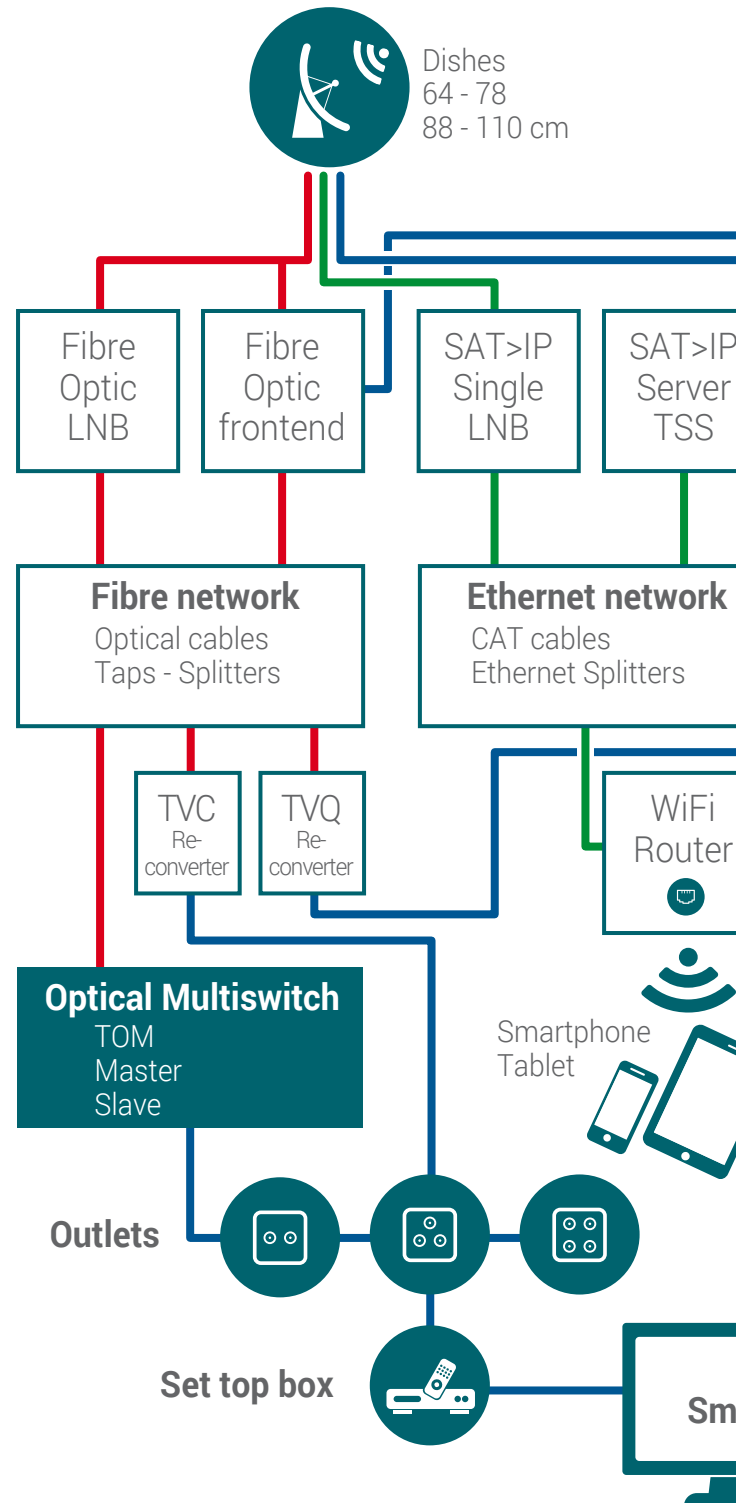
 Fibre Optical Cable system

 Coax Cable system

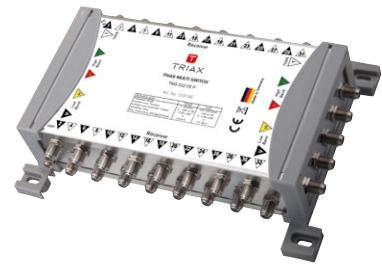
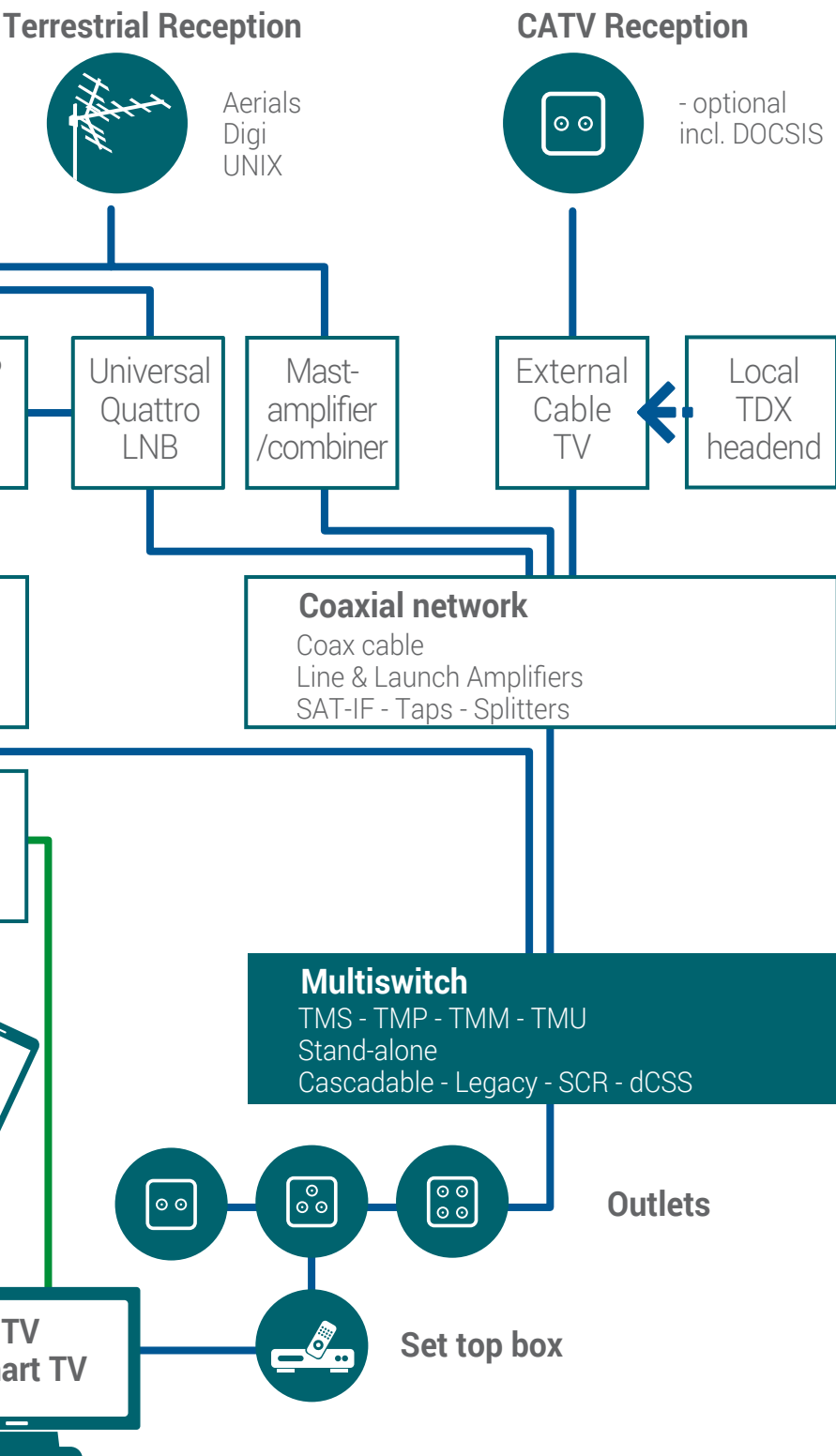
 CAT Cable system



Satellite Reception



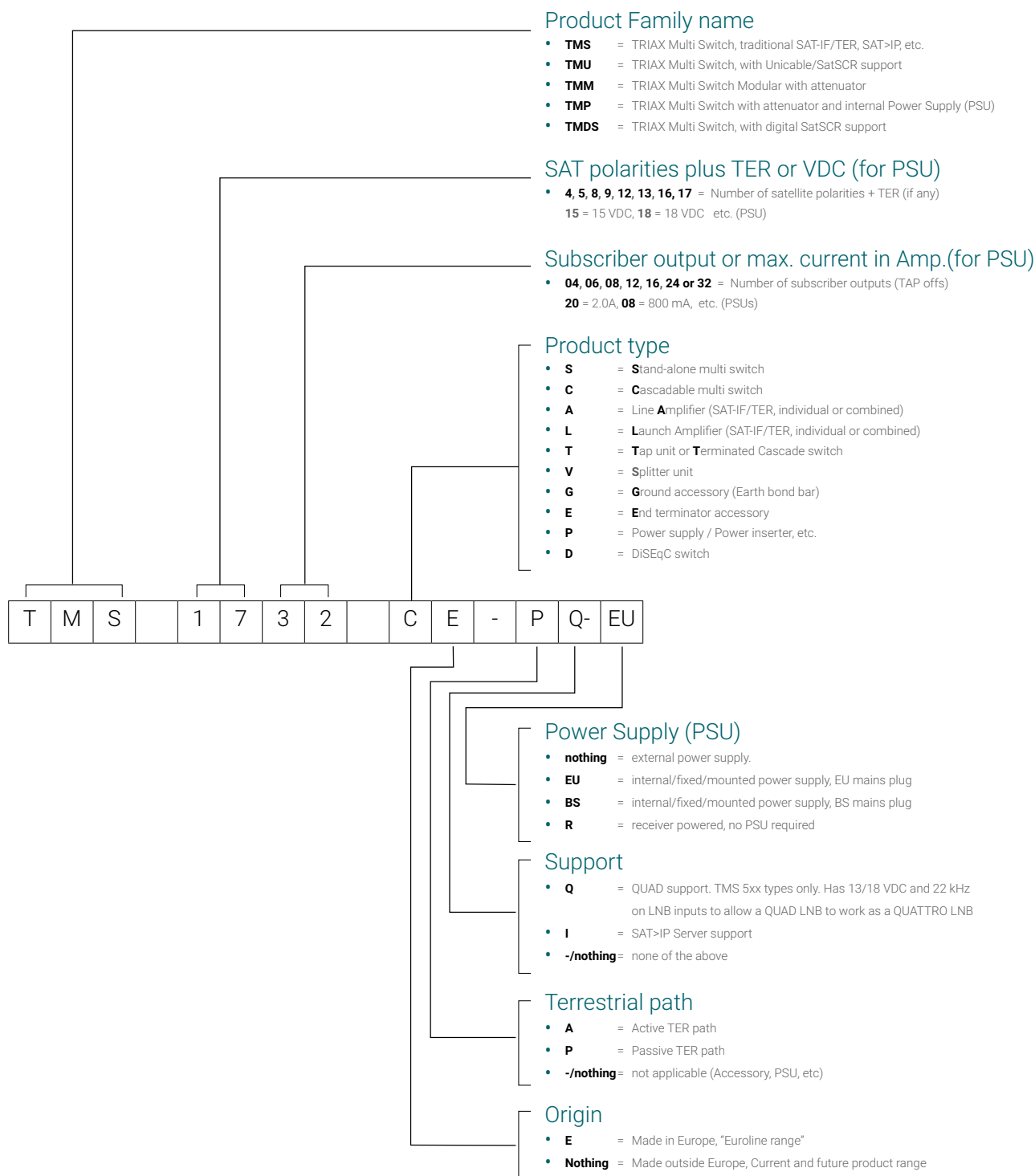
TRIAX® multiswitch solutions
products for the perfect solution



Notes

"How we name the multi switch products..."

a quick guide on how-to-read the types



Legend:



Passive
Terrestrial
loopthrough



Active
Terrestrial
loopthrough



1...4
satellite
positions



Numbers of
subscriber outputs
from the multiswitch

TRIAX® multiswitch solutions

standalone, quad LNB support, active TER, EU Mains plug



Common features - Standalone switches

- The best solution for installations of between 6 and 32 satellite receivers within relatively short distance from each other and the switch.
- Quad LNB support: no need to buy a quattro LNB
- Active Terrestrial: for when you need a terrestrial TV input alongside the satellite signal.
- EU mains plug: where mains power is available.
- If you require a terrestrial TV input along with the satellite signal, please choose a version with an active TER path.
- If a CATV system is available, we recommend using a version with a passive TER path.



TMS 506 SE AQ-EU

Art. No. 318102

EAN Number
5702663181021



TMS 516 SE AQ-EU

Art. No. 318124

EAN Number
5702663181243



TMS 508 SE AQ-EU

Art. No. 318108

EAN Number
5702663181083



TMS 524 SE AQ-EU

Art. No. 318130

EAN Number
5702663181304



TMS 512 SE AQ-EU

Art. No. 318116

EAN Number
5702663181168



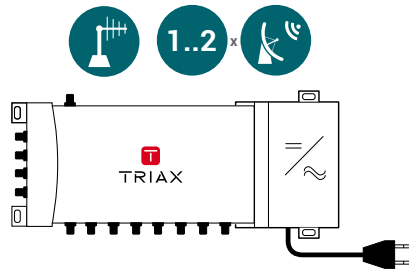
TMS 532 SE AQ-EU

Art. No. 318140

EAN Number
5702663181403

TRIAX® multiswitch solutions

1 position



Legend:



Passive
Terrestrial
loopthrough



Active
Terrestrial
loopthrough



1...4
satellite
positions

6 8 12 16 24 28 32

Numbers of
subscriber outputs
from the multiswitch

6 8 12 16 24 32

Type:	TMS 506 SE AQ-EU Stand-alone	TMS 508 SE AQ-EU Stand-alone	TMS 512 SE AQ-EU Stand-alone	TMS 516 SE AQ-EU Stand-alone	TMS 524 SE AQ-EU Stand-alone	TMS 532 SE AQ-EU Stand-alone
Art. no.	318102	318108	318116	318124	318130	318140
CHARACTERISTICS						
LNB current max.	500mA	500mA	500mA	500mA	500mA	500mA
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	90dBμV	90dBμV	90dBμV	90dBμV	90dBμV	90dBμV
Switch commands	13/18 V, 0/22 kHz					
FREQUENCY						
Frequency range SAT	950...2400MHz					
Frequency range TER	40...862MHz					
GAIN						
Gain - SAT (with 5 dB slope)	-2... +3 ±2dB	-2... +3 ±2dB	-2... +3 ±2dB	-2... +3 ±2dB	-6... 0 ±2dB	-6... 0 ±2dB
Gain - TER [47-862 MHz]	-2 ±2dB	-2 ±2dB	-3 ±3dB	-3 ±3dB	-3 ±3dB	-3 ±3dB
ISOLATION						
Cross polarisation H/V	typ. 30dB					
Isolation SAT to TER	typ. 30dB					
Isolation TER to SAT	typ. 30dB					
RETURN LOSS						
Return loss SAT inputs	>10dB					
Return loss SAT outputs	>10dB					
Return loss TER inputs	>10dB					
Return loss TER outputs	>10dB					
ELECTRICAL						
Impedance	75Ω					
OPERATIONAL						
Control LEDs	Green LED (Power)					
Max. current @ 13 V/18V	120mA	120mA	250mA	250mA	305mA	305mA
Max. current to output (supplied by set top box)	27mA	27mA	38mA	38mA	29mA	29mA
Power Consumption (typ.)	3W	3W	5,5W	5,5W	6,5W	6,5W
Temperature range	0...+55°C					
CONNECTORS						
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow					
Connector Type	F-female					
DC input connector	N/A (Built-in PSU)					
Number of inputs	5	5	5	5	5	5
Subscriber outputs	6	8	12	16	24	32
MECHANICAL						
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	110mm	110mm	110mm	110mm	140mm	140mm
Width (mm)	222mm	222mm	310mm	310mm	324mm	324mm
Height (mm)	57mm	57mm	57mm	57mm	63mm	63mm
Material	steel metal cabinet					
Packing QTY	1	1	1	1	1	1

TRIAX[®] multiswitch solutions

standalone active TER – built-in PSU with EU plug



Common features - Standalone switches

- The best solution for installations of between 6 and 32 satellite receivers within relatively short distance from each other and the switch.
- Active Terrestrial: for when you need a terrestrial TV input alongside the satellite signal.
- EU mains plug: where mains power is available.



TMS 506 SE A-EU

Art. No. 318105

EAN Number
5702663181052



TMS 516 SE A-EU

Art. No. 318123

EAN Number
5702663181236



TMS 508 SE A-EU

Art. No. 318111

EAN Number
5702663181113



TMS 524 SE A-EU

Art. No. 318135

EAN Number
5702663181359



TMS 512 SE A-EU

Art. No. 318115

EAN Number
5702663181151



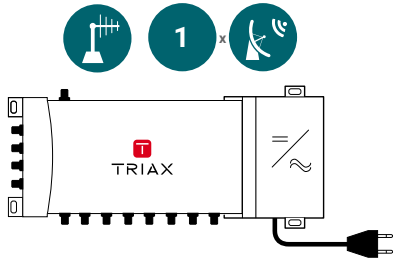
TMS 532 SE A-EU

Art. No. 318145

EAN Number
5702663181458

TRIAX[®] multiswitch solutions

1 position



Legend:



Passive
Terrestrial
loopthrough



Active
Terrestrial
loopthrough



1...4
satellite
positions

6 8 12 16 24 28 32

Numbers of
subscriber outputs
from the multiswitch

6 8 12 16 24 32

Type:	TMS 506 SE A-EU Stand-alone	TMS 508 SE A-EU Stand-alone	TMS 512 SE A-EU Stand-alone	TMS 516 SE A-EU Stand-alone	TMS 524 SE A-EU Stand-alone	TMS 532 SE A-EU Stand-alone
Art. no.	318105	318111	318115	318123	318135	318145
CHARACTERISTICS						
LNB current max.	500mA	500mA	500mA	500mA	500mA	500mA
Max. output level SAT @ -35 dB IMD3	100dBµV	100dBµV	100dBµV	100dBµV	100dBµV	100dBµV
Max. output level TER @ 60dB IMD3	90dBµV	90dBµV	88dBµV	88dBµV	88dBµV	91dBµV
Switch commands	13/18 V, 0/22 kHz					
FREQUENCY						
Frequency range SAT	950...2400MHz					
Frequency range TER	40...862MHz					
GAIN						
Gain - SAT (with 5 dB slope)	-2...+3 ±2dB	-2...+3 ±2dB	-2...+3 ±2dB	-2...+3 ±2dB	-2...+3 ±2dB	-2...+3 ±2dB
Gain - TER [47-862 MHz]	-2 ±2dB	-2 ±2dB	-3 ±3dB	-3 ±3dB	-3 ±3dB	-3 ±3dB
ISOLATION						
Cross polarisation H/V	typ. 30dB					
Isolation SAT to TER	typ. 30dB					
Isolation TER to SAT	typ. 30dB					
RETURN LOSS						
Return loss SAT inputs	>10dB					
Return loss SAT outputs	>10dB					
Return loss TER inputs	>10dB					
Return loss TER outputs	>10dB					
ELECTRICAL						
Impedance	75Ω					
OPERATIONAL						
Control LEDs	Green LED (Power)					
Max. current @ 13 V/18V	120mA	120mA	250mA	250mA	305mA	305mA
Max. current to each output (supplied by set top box)	27mA	27mA	38mA	38mA	29mA	35mA
Power Consumption (typ.)	3,5W	3,5W	5,5W	5,5W	6,5W	6,5W
Temperature range	0...+55 °C°C	0...+55 °C°C	0...+55 °C°C	0...+55 °C°C	0...+55 °C°C	0...+55 °C°C
CONNECTORS						
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow					
Connector Type	F-female					
DC input connector	N/A (Built-in PSU)					
Number of inputs	5	5	5	5	5	5
Subscriber outputs	6	8	12	16	24	32
MECHANICAL						
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	110mm	110mm	110mm	110mm	140mm	140mm
Width (mm)	222mm	222mm	310mm	310mm	324mm	324mm
Height (mm)	57mm	57mm	57mm	57mm	63mm	63mm
Material	steel metal cabinet					
Packing QTY	1	1	1	1	1	1

TRIAX[®] multiswitch solutions

standalone active TER – built-in PSU with EU plug



Common features - Standalone switches

- The best solution for installations of between 6 and 32 satellite receivers within relatively short distance from each other and the switch.
- Active Terrestrial: for when you need a terrestrial TV input alongside the satellite signal.
- EU mains plug: where mains power is available.



TMS 908 SE A-EU

Art. No. 318206

EAN Number
5702663182066



TMS 912 SE A-EU

Art. No. 318214

EAN Number
5702663182141



TMS 916 SE A-EU

Art. No. 318224

EAN Number
5702663182240



TMS 924 SE A-EU

Art. No. 318234

EAN Number
5702663182349



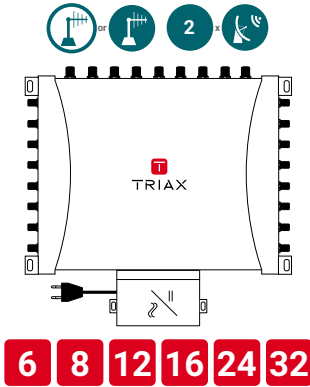
TMS 932 SE A-EU

Art. No. 318244

EAN Number
5702663182448

TRIAX® multiswitch solutions

2 positions



Type:	TMS 908 SE A-EU	TMS 912 SE A-EU	TMS 916 SE A-EU	TMS 924 SE A-EU	TMS 932 SE A-EU
Art. no.	318206	318214	318224	318234	318244
CHARACTERISTICS					
Max. output level SAT @ -35 dB					
IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB					
IMD3	91dBμV	90dBμV	88dBμV	88dBμV	90dBμV
Switch commands	13/18 V, 0/22 kHz, DiSEqC 1.0	13/18 V, 0/22 kHz, DiSEqC 1.0	13/18 V, 0/22 kHz, DiSEqC 1.0	13/18 V, 0/22 kHz, DiSEqC 1.0	13/18 V, 0/22 kHz, DiSEqC 1.0
FREQUENCY					
Frequency range SAT	950...2400MHz	950...2400MHz	950...2400MHz	950...2400MHz	950...2400MHz
Frequency range TER	40...862MHz	40...862MHz	40...862MHz	40...862MHz	40...862MHz
GAIN					
Gain - SAT (with 5 dB slope)	-5...+2 ±2dB	-2...+2 ±2dB	-2...+2 ±2dB	-2...+2 ±2dB	-2...+2 ±2dB
Gain - TER [47-862 MHz]	-2 ±2dB	-2 ±2dB	-2 ±2dB	-2 ±2dB	-2 ±2dB
ISOLATION					
Isolation cross polarisation H/V				typ. 30dB	
Isolation SAT to TER				typ. 30dB	
RETURN LOSS					
Return loss SAT inputs				>10dB	
Return loss SAT outputs				>10dB	
Return loss TER inputs				>10dB	
Return loss TER outputs				>10dB	
ELECTRICAL					
Impedance				75Ω	
OPERATIONAL					
Control LEDs	Green LED (Power)				
Max. current to each output (supplied by set top box)	43mA	43mA	43mA	43mA	43mA
Power Consumption (typ.)	2,5W	5,5W	5,5W	6,5W	6,5W
Temperature range	0...+55 °C°C	0...+55 °C°C	0...+55 °C°C	0...+55 °C°C	0...+55 °C°C
CONNECTORS					
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow				
Connector Type	F-female				
DC input connector	N/A (Built-in PSU)				
Number of inputs	9	9	9	9	9
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	110mm	198mm	198mm	198mm	198mm
Width (mm)	270mm	272mm	272mm	390mm	390mm
Height (mm)	63mm	63mm	63mm	63mm	63mm
Length (mm)	mm	mm	mm	mm	mm
Material	steel metal cabinet				
Packing QTY	1	1	1	1	1

TRIAX® multiswitch solutions

standalone active TER – built-in PSU with EU plug



Common features - Standalone switches

- The best solution for installations of between 6 and 32 satellite receivers within relatively short distance from each other and the switch.
- Active Terrestrial: for when you need a terrestrial TV input alongside the satellite signal.
- EU mains plug: where mains power is available.



TMS 1308 SE A-EU

Art. No. 318308

EAN Number
5702663183087



TMS 1312 SE A-EU

Art. No. 318316

EAN Number
5702663183162



TMS 1316 SE A-EU

Art. No. 318324

EAN Number
5702663183247



TMS 1324 SE A-EU

Art. No. 318332

EAN Number
5702663183322



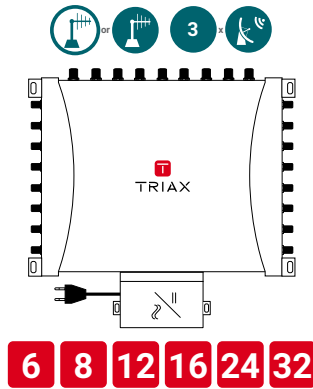
TMS 1332 SE A-EU

Art. No. 318340

EAN Number
5702663183407

TRIAX[®] multiswitch solutions

3 positions



Legend:



6 8 12 16 24 28 32

Numbers of subscriber outputs from the multiswitch

Type:	TMS 1308 SE A-EU Stand-alone	TMS 1312 SE A-EU Stand-alone	TMS 1316 SE A-EU Stand-alone	TMS 1324 SE A-EU Stand-alone	TMS 1332 SE A-EU Stand-alone
Art. no.	318308	318316	318324	318332	318340
CHARACTERISTICS					
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	88dBμV	90dBμV	90dBμV	90dBμV	90dBμV
Switch commands	13/18 V, 0/22 kHz, DiSEqC 1.0				
FREQUENCY					
Frequency range SAT	950...2400MHz				
Frequency range TER	40...862MHz				
LOSS					
Insertion loss - SAT	-2...+2 ±2dB	-3...0 ±2dB	-3...0 ±2dB	-5...-2 ±2dB	-5...-2 ±2dB
Insertion loss - TER	-2 ±2dB	-3 ±3dB	-3 ±3dB	-3 ±3dB	-3 ±3dB
ISOLATION					
Isolation cross polarisation H/V	typ. 30dB				
Isolation SAT to TER	typ. 30dB				
RETURN LOSS					
Return loss SAT inputs	>10dB				
Return loss SAT outputs	>10dB				
Return loss TAP outputs	>10dB				
Return loss TER inputs	>10dB				
Return loss TER outputs	>10dB				
ELECTRICAL					
Impedance	75Ω				
OPERATIONAL					
Control LEDs	Green LED (Power)				
Max. current to each output (supplied by set top box)	68mA	68mA	68mA	68mA	68mA
AC Supply voltage	90...264 / 50...60HzVAC				
Power Consumption (typ.)	6,5W	5,5W	5,5W	5,5W	5,5W
Temperature range	0...+55°C				
CONNECTORS					
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow				
Connector Type	F-female				
DC input connector	N/A (Built-in PSU)				
Number of inputs	13	13	13	13	13
Number of outputs	13	13	13	13	13
Number of trunk inputs	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER
Number of trunk outputs	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER
Power connector	EU Plug	EU Plug	EU Plug	EU Plug	EU Plug
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	286mm	286mm	286mm	286mm	286mm
Width (mm)	272mm	272mm	272mm	395mm	395mm
Height (mm)	63mm	63mm	63mm	63mm	63mm
Material	steel metal cabinet				
Packing QTY	1	1	1	1	1

TRIAX® multiswitch solutions

standalone active TER – built-in PSU with EU plug



Common features - Standalone switches

- The best solution for installations of between 6 and 32 satellite receivers within relatively short distance from each other and the switch.
- Active Terrestrial: for when you need a terrestrial TV input alongside the satellite signal.
- EU mains plug: where mains power is available.



TMS 1308 SE A-EU

Art. No. 318308

EAN Number
5702663183087



TMS 1312 SE A-EU

Art. No. 318316

EAN Number
5702663183162



TMS 1316 SE A-EU

Art. No. 318324

EAN Number
5702663183247



TMS 1324 SE A-EU

Art. No. 318332

EAN Number
5702663183322



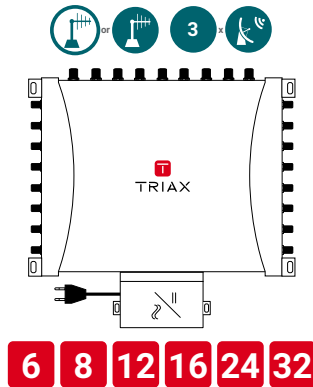
TMS 1332 SE A-EU

Art. No. 318340

EAN Number
5702663183407

TRIAX[®] multiswitch solutions

3 positions



Legend:



6 8 12 16 24 28 32

Numbers of subscriber outputs from the multiswitch

Type:	TMS 1308 SE A-EU Stand-alone	TMS 1312 SE A-EU Stand-alone	TMS 1316 SE A-EU Stand-alone	TMS 1324 SE A-EU Stand-alone	TMS 1332 SE A-EU Stand-alone
Art. no.	318308	318316	318324	318332	318340
CHARACTERISTICS					
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	88dBμV	90dBμV	90dBμV	90dBμV	90dBμV
Switch commands	13/18 V, 0/22 kHz, DiSEqC 1.0				
FREQUENCY					
Frequency range SAT	950...2400MHz				
Frequency range TER	40...862MHz				
LOSS					
Insertion loss - SAT	-2...+2 ±2dB	-3...0 ±2dB	-3...0 ±2dB	-5...-2 ±2dB	-5...-2 ±2dB
Insertion loss - TER	-2 ±2dB	-3 ±3dB	-3 ±3dB	-3 ±3dB	-3 ±3dB
ISOLATION					
Isolation cross polarisation H/V	typ. 30dB				
Isolation SAT to TER	typ. 30dB				
RETURN LOSS					
Return loss SAT inputs	>10dB				
Return loss SAT outputs	>10dB				
Return loss TAP outputs	>10dB				
Return loss TER inputs	>10dB				
Return loss TER outputs	>10dB				
ELECTRICAL					
Impedance	75Ω				
OPERATIONAL					
Control LEDs	Green LED (Power)				
Max. current to each output (supplied by set top box)	68mA	68mA	68mA	68mA	68mA
AC Supply voltage	90...264 / 50...60HzVAC				
Power Consumption (typ.)	6,5W	5,5W	5,5W	5,5W	5,5W
Temperature range	0...+55°C				
CONNECTORS					
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow				
Connector Type	F-female				
DC input connector	N/A (Built-in PSU)				
Number of inputs	13	13	13	13	13
Number of outputs	13	13	13	13	13
Number of trunk inputs	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER
Number of trunk outputs	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER
Power connector	EU Plug	EU Plug	EU Plug	EU Plug	EU Plug
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	286mm	286mm	286mm	286mm	286mm
Width (mm)	272mm	272mm	272mm	395mm	395mm
Height (mm)	63mm	63mm	63mm	63mm	63mm
Material	steel metal cabinet				
Packing QTY	1	1	1	1	1

TRIAX® multiswitch solutions

standalone active TER – built-in PSU with EU plug



Common features - Standalone switches

- The best solution for installations of between 6 and 32 satellite receivers within relatively short distance from each other and the switch.
- Active Terrestrial: for when you need a terrestrial TV input alongside the satellite signal.
- EU mains plug: where mains power is available.



**TMP 5X8 Stand alone -
4SAT+1TER+PSU / 8out**

Art. No. 301620

EAN Number
5702663016200



**TMP 5X24 Stand alone -
4SAT+1TER+PSU / 24out**

Art. No. 301626

EAN Number
5702663016262



**TMP 5X12 Stand alone -
4SAT+1TER+PSU / 12out**

Art. No. 301622

EAN Number
5702663016224



**TMP 5X32 Stand alone -
4SAT+1TER+PSU / 32out**

Art. No. 301628

EAN Number
5702663016286



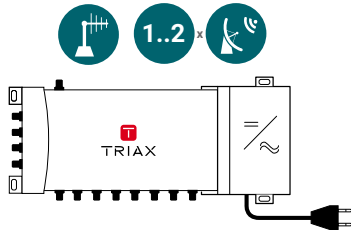
**TMP 5x16 Stand alone -
4SAT+1TER+PSU / 16out**

Art. No. 301624

EAN Number
5702663016248

TRIAX® multiswitch solutions

1 position



6 8 12 16 24 32

Legend:



Passive
Terrestrial
loopthrough



Active
Terrestrial
loopthrough



1...4
satellite
positions

6 8 12 16 24 28 32

Numbers of
subscriber outputs
from the multiswitch

Type:	TMP 5X8 / 8out	TMP 5X12 / 12out	TMP 5x16 / 16out	TMP 5X24 / 24out	TMP 5X32 / 32out
Art. no.	301620	301622	301624	301626	301628
CHARACTERISTICS					
Input pol. gain control SAT	4 X 10.0dB	4 X 10.0dB	4 X 10.0dB	4 X 10.0dB	4 X 10.0dB
Input pol. gain control TER	15.0dB	15.0dB	15.0dB	15.0dB	15.0dB
LNB current max.	600mA	600mA	600mA	600mA	600mA
Max. output level SAT @ -35 dB IMD3	100dBµV	100dBµV	100dBµV	100dBµV	100dBµV
Max. output level TER @ 60dB IMD3	95dBµV	95dBµV	95dBµV	95dBµV	95dBµV
Switch commands	13V/18V - 13V/22 kHz - 18V/22 kHz				
FREQUENCY					
Frequency range SAT	950-2150MHz				
Frequency range TER	47-862MHz				
GAIN					
Gain - SAT (5 dB slope)					
Gain - TER [47-862 MHz]					
LOSS					
Insertion loss - trunkline SAT	3.0dB	3.0dB	3.0dB	2.0dB	3.0dB
Insertion loss - trunkline TER	3.0dB	3.0dB	0.0dB	0.0dB	0.0dB
ISOLATION					
Cross polarisation H/V	30dB				
Isolation out-out SAT	30dB				
Isolation out-out TER	30dB				
Isolation SAT to TER	32dB				
Isolation TER to SAT	32dB				
RETURN LOSS					
Return loss SAT inputs	10dB				
Return loss SAT outputs	8dB				
Return loss TER inputs	10dB				
Return loss TER outputs	8dB				
ELECTRICAL					
Impedance	75Ω				
OPERATIONAL					
DC Operating voltage	18.0VDC	18.0VDC	18.0VDC	18.0VDC	18.0VDC
DC Current cons. (typ.)	1500 (47-63 HZ)mA				
LINE power current (max.)	50.0mA	50.0mA	50.0mA	50.0mA	50.0mA
LINE power DC volt. (max.)	12.0VDC	12.0VDC	12.0VDC	12.0VDC	12.0VDC
Max. current pass F-conn.					
AC Supply voltage	180...264VAC				
Temperature range	0...+55°C	0...+55°C	0...55°C	0...55°C	0...55°C
CONNECTORS					
Colourcoding on inputs	Yes				
Connector Type	F-female				
Number of inputs	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	157mm	157mm	157mm	157mm	157mm
Width (mm)	190mm	240mm	240mm	340mm	340mm
Height (mm)	51mm	51mm	51mm	51mm	51mm
Packing QTY	1	1	1	1	1

TRIAX[®] multiswitch solutions (LTE)

standalone active TER – built-in PSU with EU plug



Common features - Standalone switches

- The best solution for installations of between 6 and 32 satellite receivers within relatively short distance from each other and the switch.
- Active Terrestrial: for when you need a terrestrial TV input alongside the satellite signal.
- EU mains plug: where mains power is available.



**TMP 5x8 Stand alone -
4SAT+1TER+PSU / 8out -
LTE protected**

Art. No. 305371

EAN Number
5702663053717



**TMP 5x24 Stand alone -
4SAT+1TER+PSU / 24out -
LTE protected**

Art. No. 305377

EAN Number
5702663053779



**TMP 5x12 Stand alone -
4SAT+1TER+PSU / 12out -
LTE protected**

Art. No. 305373

EAN Number
5702663053731



**TMP 5x32 Stand alone -
4SAT+1TER+PSU / 32out -
LTE protected**

Art. No. 305379

EAN Number
5702663053793



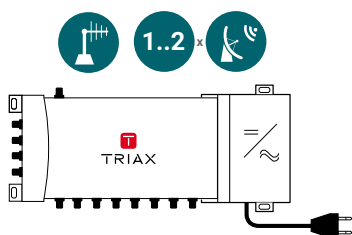
**TMP 5x16 Stand alone -
4SAT+1TER+PSU / 16out -
LTE protected**

Art. No. 305375

EAN Number
5702663053755

TRIAX® multiswitch solutions

1 position



6 8 12 16 24 32

Legend:



Passive
Terrestrial
loopthrough



Active
Terrestrial
loopthrough



1..4
satellite
positions

6 8 12 16 24 28 32

Numbers of
subscriber outputs
from the multiswitch

Type:	TMP 5x8 8out - LTE protected	TMP 5x12 12out - LTE protected	TMP 5x16 16out - LTE protected	TMP 5x24 24out - LTE protected	TMP 5x32 32out - LTE protected
Art. no.	305371	305373	305375	305377	305379
CHARACTERISTICS					
Input pol. gain control SAT	4 x 10.0dB	4 X 10.0dB	4 X 10.0dB	4 x 10.0dB	4 x 10.0dB
Input pol. gain control TER	15.0dB	15.0dB	15.0dB	15.0dB	15.0dB
LNB current max.	1000mA	1000mA	1000mA	1000mA	1000mA
Max. output level SAT @ -35 dB IMD3	100dBµV	100dBµV	100dBµV	100dBµV	100dBµV
Max. output level TER @ 60dB IMD3	90dBµV	88dBµV	88dBµV	85dBµV	85dBµV
Switch commands	13V/18V - 13V/22 kHz - 18V/22 kHz				
FREQUENCY					
Frequency range SAT	950-2150MHz				
Frequency range TER	47-862MHz				
LOSS					
Equalization TER	10.0	10.0	10.0	10.0	10.0
Insertion loss - SAT	0dB	3dB	3dB	3dB	3dB
Insertion loss - TER	0dB	3dB	3dB	0dB	0dB
ISOLATION					
Isolation cross pol. H/V	30dB				
Isolation out-out SAT	30dB				
Isolation out-out TER	30dB				
Isolation SAT to TER	32dB				
Isolation TER to SAT	32dB				
RETURN LOSS					
Return loss SAT inputs	10dB	10dB	10dB	10dB	10dB
Return loss SAT outputs	8dB	8dB	8dB	8dB	8dB
Return loss TER inputs	10dB	10dB	10dB	10dB	10dB
Return loss TER outputs	8dB	8dB	8dB	8dB	8dB
ELECTRICAL					
Impedance	75Ω	75Ω	75Ω	75Ω	75Ω
OPERATIONAL					
DC Current consump.(typ.)	1500 (47-63 HZ)mA				
LINE power current (max.)	50.0mA	50.0mA	50.0mA	50.0mA	50.0mA
LINE power DC voltage (max.)	12.0 Switchable On Terr. Input for Masthead AmplifierVDC				
AC Supply voltage	180...264VAC	180...264VAC	180...264VAC	180...264VAC	180...264VAC
Temperature range	0...+55°C	0...+55°C	0...+55°C	0...+55°C	0...+55°C
CONNECTORS					
Colourcoding on inputs	Yes	Yes	Yes	Yes	Yes
Connector Type	F-female	F-female	F-female	F-female	F-female
Number of inputs	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Depth	56mm	56mm	56mm	56mm	56mm
Height	170mm	170mm	170mm	170mm	170mm
Width	232mm	282mm	282mm	382mm	382mm
Packing QTY	1	1	1	1	1
Remarks	LTE rejection: 766...790 MHz -3 dB / 790...821MHz -25dB / 821...862 MHz 0 dB				

TRIAX[®] multiswitch solutions

standalone active TER – built-in PSU with EU plug



Common features - Standalone switches

- The best solution for installations of between 6 and 32 satellite receivers within relatively short distance from each other and the switch.
- Active Terrestrial: for when you need a terrestrial TV input alongside the satellite signal.
- EU mains plug: where mains power is available.



**TMP 9X8 Stand alone -
8SAT+1TER+PSU / 8out**

Art. No. 301630

EAN Number
5702663016309



**TMP 9X24 Stand alone -
8SAT+1TER+PSU / 24out**

Art. No. 301636

EAN Number
5702663016361



**TMP 9X12 Stand alone -
8SAT+1TER+PSU / 12out**

Art. No. 301632

EAN Number
5702663016323



**TMP 9X32 Stand alone -
8SAT+1TER+PSU / 32out**

Art. No. 301638

EAN Number
5702663016385



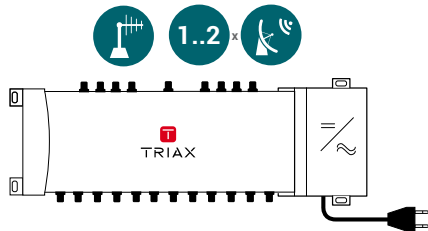
**TMP 9X16 Stand alone -
8SAT+1TER+PSU / 16out**

Art. No. 301634

EAN Number
5702663016347

TRIAX® multiswitch solutions

2 positions



8 12 16 24 32

Legend:



Passive
Terrestrial
loopthrough



Active
Terrestrial
loopthrough



1...4
satellite
positions

6 8 12 16 24 28 32

Numbers of
subscriber outputs
from the multiswitch

Type:	TMP 9X8 Stand alone	TMP 9X12 Stand alone	TMP 9X16 Stand alone	TMP 9X24 Stand alone	TMP 9X32 Stand alone
Art. no.	301630	301632	301634	301636	301638
CHARACTERISTICS					
Input polarity gain control SAT	4 X 10.0dB	4 X 10.0dB	4 X 10.0dB	4 X 15.0dB	4 X 15.0dB
Input polarity gain control TER	15.0dB	15.0dB	15.0dB	15.0dB	15.0dB
LNB current max.	600mA	600mA	600mA	600mA	600mA
Max. output level SAT					
@ -35 dB IMD3	100dBµV	100dBµV	100dBµV	100dBµV	100dBµV
Max. output level TER					
@ 60dB IMD3	95dBµV	95dBµV	95dBµV	95dBµV	95dBµV
Switch commands	13V/18V - 13V /22 kHz - 18V /22 kHz - DiSEqC 2.0				
FREQUENCY					
Frequency range SAT	950-2150MHz	950-2150MHz	950-2150MHz	950-2150MHz	950-2150MHz
Frequency range TER	47-862MHz	47-862MHz	47-862MHz	47-862MHz	47-862MHz
LOSS					
Insertion loss - trunkline SAT	3.0dB	3.0dB	3.0dB	2.0dB	2.0dB
Insertion loss - trunkline TER	3.0dB	3.0dB	3.0dB	2.0dB	2.0dB
ISOLATION					
Isolation cross polarisation H/V			30dB		
Isolation out-out SAT			30dB		
Isolation out-out TER			30dB		
Isolation SAT to TER			32dB		
Isolation TER to SAT			32dB		
RETURN LOSS					
Return loss SAT inputs	10dB	10dB	10dB	10dB	10dB
Return loss SAT outputs	8dB	8dB	8dB	10dB	10dB
Return loss TER inputs	10dB	10dB	10dB	12dB	12dB
Return loss TER outputs	8dB	8dB	8dB	10dB	10dB
ELECTRICAL					
Impedance			75Ω		
OPERATIONAL					
DC Operating voltage			18.0VDC		
DC Current consumption (typ.)			1.5 (47-63 HZ)mA		
LINE power current (max.)			50mA		
LINE power DC voltage (max.)			12.0VDC		
AC Supply voltage			180...264 / 47...63HzVAC		
Temperature range	-20...+55°C	0...+55°C	0...+55°C	0...+55°C	0...+55°C
CONNECTORS					
Colourcoding on inputs			Yes		
Connector Type			F-female		
Number of inputs	8 SAT, 1 TER	8 SAT, 1 TER	8 SAT, 1 TER	8 SAT, 1 TER	8 SAT, 1 TER
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Depth (mm)	157mm	157mm	157mm	157mm	157mm
Width (mm)	190mm	240mm	240mm	340mm	340mm
Height (mm)	51mm	51mm	51mm	51mm	51mm
Packing QTY	1	1	1	1	1

TRIAX[®] multiswitch solutions

standalone active TER – built-in PSU with EU plug



Common features - Standalone switches

- The best solution for installations of between 6 and 32 satellite receivers within relatively short distance from each other and the switch.
- Active Terrestrial: for when you need a terrestrial TV input alongside the satellite signal.
- EU mains plug: where mains power is available.



TMS 9x4P Stand alone
8SAT+1TER+PSU / 4out

Art. No. 300344

EAN Number
5702663003446



TMS 9x12P Stand alone
8SAT+1TER+PSU / 12out

Art. No. 300342

EAN Number
5702663003422



TMS 9x6P Stand alone
8SAT+1TER+PSU / 6out

Art. No. 300346

EAN Number
5702663003460



TMS 9x16P Stand alone
8SAT+1TER+PSU / 16out

Art. No. 300347

EAN Number
5702663003477



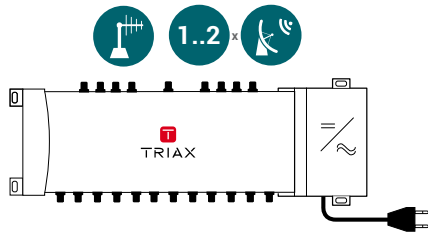
TMS 9x8P Stand alone
8SAT+1TER+PSU / 8out

Art. No. 300348

EAN Number
5702663003484

TRIAX[®] multiswitch solutions

2 positions



8 12 16 24 32

Type:	TMS 9x4P Stand alone	TMS 9x6P Stand alone	TMS 9x8P Stand alone	TMS 9x12P Stand alone	TMS 9x16P Stand alone
Art. no.	300344	300346	300348	300342	300347
CHARACTERISTICS					
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	85dBμV	85dBμV	85dBμV	83dBμV	82dBμV
Switch commands	13/18 V, 0/22 kHz, DiSEqC 1.0				
FREQUENCY					
Frequency range SAT	950-2150MHz				
Frequency range TER	47-862MHz				
GAIN					
Gain - SAT (with 5 dB slope)	2dB	2dB	2dB	0dB	0dB
Gain - TER [47-862 MHz]	- 2.0dB	- 2.0dB	- 2.0dB	4.0dB	2.0dB
ISOLATION					
Isolation cross polarisation H/V	28dB	28dB	28dB	25dB	25dB
Isolation out-out SAT	30dB	30dB	30dB	30dB	30dB
Isolation out-out TER	26dB	26dB	26dB	28dB	30dB
Isolation SAT to TER	30dB	30dB	30dB	30dB	28dB
Isolation TER to SAT	28dB	28dB	28dB	30dB	30dB
RETURN LOSS					
Return loss SAT inputs	14dB	14dB	14dB	10dB	10dB
Return loss SAT outputs	7dB	7dB	7dB	10dB	10dB
Return loss TER inputs	11dB	11dB	11dB	12dB	12dB
Return loss TER outputs	8dB	8dB	8dB	10dB	10dB
ELECTRICAL					
Impedance	75Ω				
OPERATIONAL					
DC Operating voltage	15.0 ± 1.0VDC	15.0 ± 1.0VDC	15.0 ± 1.0VDC	15.0 ± 1.0VDC	15.0 ± 1.0VDC
Max. current per F-connector	1000mA	1000mA	1000mA	1000mA	1000mA
Temperature range	0...+55°C	0...+55°C	0...+55°C	0...+55°C	0...+55°C
CONNECTORS					
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow				
Connector Type	F-female	F-female	F-female	F-female	F-female
Number of inputs	8 SAT, 1 TER	8 SAT, 1 TER	8 SAT, 1 TER	8 SAT, 1 TER	8 SAT, 1 TER
Subscriber outputs	4	6	8	12	16
MECHANICAL					
Depth (mm)	103mm	103mm	103mm	103mm	103mm
Width (mm)	359mm	359mm	359mm	459mm	559mm
Height (mm)	71mm	71mm	71mm	71mm	71mm
Packing QTY	1	1	1	1	1

TRIAX® multiswitch solutions (LTE)

standalone active TER – built-in PSU with EU plug



Common features - Standalone switches

- The best solution for installations of between 6 and 32 satellite receivers within relatively short distance from each other and the switch.
- Active Terrestrial: for when you need a terrestrial TV input alongside the satellite signal.
- EU mains plug: where mains power is available.



**TMP 9x8 Stand alone -
8SAT+1TER+PSU / 8out -
LTE protected**

Art. No. 305381

EAN Number
5702663053816



**TMP 9x24 Stand alone -
8SAT+1TER+PSU / 24out -
LTE protected**

Art. No. 305387

EAN Number
5702663053878



**TMP 9x12 Stand alone -
8SAT+1TER+PSU / 12out -
LTE protected**

Art. No. 305383

EAN Number
5702663053830



**TMP 9x32 Stand alone -
8SAT+1TER+PSU / 32out -
LTE protected**

Art. No. 305389

EAN Number
5702663053892



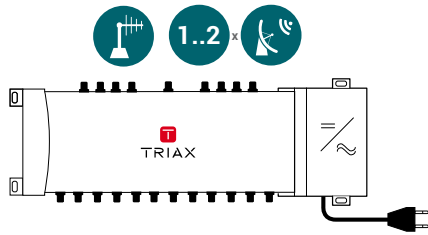
**TMP 9x16 Stand alone -
8SAT+1TER+PSU / 16out -
LTE protected**

Art. No. 305385

EAN Number
5702663053854

TRIAX[®] multiswitch solutions

2 positions



Legend:



6 8 12 16 24 28 32

Numbers of subscriber outputs from the multiswitch

8 12 16 24 32

Type:	TMP 9x8 Stand alone LTE protected	TMP 9x12 Stand alone LTE protected	TMP 9x16 Stand alone LTE protected	TMP 9x24 Stand alone LTE protected	TMP 9x32 Stand alone LTE protected
Art. no.	305381	305383	305385	305387	305389
CHARACTERISTICS					
Input polarity gain control SAT	10dB	10dB	10dB	10dB	10dB
Input polarity gain control TER	15dB	15dB	15dB	15dB	15dB
LNB current max.	1000mA	1000mA	1000mA	1000mA	1000mA
Max. output level SAT @ -35 dB IMD3	100dBµV	100dBµV	100dBµV	95dBµV	95dBµV
Max. output level TER @ 60dB IMD3	88dBµV	88dBµV	88dBµV	85dBµV	85dBµV
Switch commands	13V, 18V, 13V 22kHz, 18V 22kHz, DiSEqC 2.0				
FREQUENCY					
Frequency range SAT	950-2150MHz				
Frequency range TER	47-790MHz				
LOSS					
Equalization TER	10dB				
Insertion loss - SAT	3dB				
Insertion loss - TER	3dB				
ISOLATION					
Isolation cross polarisation H/V	30dB				
Isolation out-out SAT	30dB				
Isolation out-out TER	30dB				
Isolation SAT to TER	30dB				
Isolation TER to SAT	30dB				
RETURN LOSS					
Return loss SAT inputs	10dB				
Return loss SAT outputs	8dB				
Return loss TER inputs	10dB				
Return loss TER outputs	8dB				
ELECTRICAL					
Impedance	75Ω				
OPERATIONAL					
Control LEDs	Power On				
LINE power current (max.)	50mA				
LINE power DC voltage (max.)	12 (Switchable)VDC				
AC Supply voltage	180...264 / 47...63HzVAC				
Temperature range	0 to +55°C	0 to +55°C	0 to +55°C	0 to +55°C	0 to +55°C
CONNECTORS					
Colourcoding on inputs	Yes				
Connector Type	F-female				
Number of trunk inputs	8 SAT, 1 TER	8 SAT, 1 TER	8 SAT, 1 TER	8 SAT, 1 TER	8 SAT, 1 TER
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Depth (mm)	232mm	282mm	282mm	382mm	382mm
Width (mm)	170mm	170mm	170mm	170mm	170mm
Height (mm)	56mm	56mm	56mm	56mm	56mm
Packing QTY	1	1	1	1	1
Remarks	LTE Rejection: 790-821MHz = 25dB				

TRIAX® multiswitch solutions

standalone, passive TER, EU mains plug



Common features - Standalone switches

- The best solution for installations of between 6 and 32 satellite receivers within relatively short distance from each other and the switch.
- Active Terrestrial: for when you need a terrestrial TV input alongside the satellite signal.
- EU mains plug: where mains power is available.



TMS 506 SE P-EU

Art. No. 318100

EAN Number
5702663181007



TMS 516 SE P-EU

Art. No. 318127

EAN Number
5702663181274



TMS 508 SE P-EU

Art. No. 318106

EAN Number
5702663181069



TMS 524 SE P-EU

Art. No. 318132

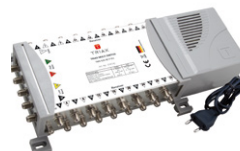
EAN Number
5702663181328



TMS 512 SE P-EU

Art. No. 318121

EAN Number
5702663181212



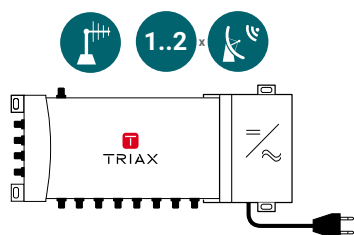
TMS 532 SE P-EU

Art. No. 318142

EAN Number
5702663181427

TRIAX® multiswitch solutions

1 position



6 8 12 16 24 32

Legend:



Passive
Terrestrial
loopthrough



Active
Terrestrial
loopthrough



1...4
satellite
positions

6 8 12 16 24 28 32

Numbers of
subscriber outputs
from the multiswitch

Type:	TMS 506 SE P-EU Stand-alone	TMS 508 SE P-EU Stand-alone	TMS 512 SE P-EU Stand-alone	TMS 516 SE P-EU Stand-alone	TMS 524 SE P-EU Stand-alone	TMS 532 SE P-EU Stand-alone
Art. no.	318100	318106	318121	318127	318132	318142
CHARACTERISTICS						
LNB current max.	500mA	500mA	500mA	500mA	500mA	500mA
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	passive	passive	passive	passive	passive	passive
Switch commands	13/18 V, 0/22 kHz					
FREQUENCY						
Frequency range SAT	950...2400MHz					
Frequency range TER	5...862MHz					
GAIN						
Gain - SAT (5 dB slope)	-2...+3 ±2dB	-2...+3 ±2dB	-2...+3 ±2dB	-2...+3 ±2dB	-2...+3 ±2dB	-2...+3 ±2dB
Gain - TER [47-862 MHz]	-15 ±3dB	-15 ±3dB	-33 ±3dB	-33 ±3dB	-33 ±3dB	-33 ±3dB
ISOLATION						
Cross polarisation H/V	typ. 30dB					
Isolation SAT to TER	typ. 30dB					
Isolation TER to SAT	typ. 30dB					
RETURN LOSS						
Return loss SAT inputs	>10dB					
Return loss SAT outputs	>10dB					
Return loss TER inputs	>10dB					
Return loss TER outputs	>10dB					
ELECTRICAL						
Impedance	75Ω					
OPERATIONAL						
Control LEDs	Green LED (Power)					
Max. current @ 13 V/18V	120mA	120mA	120mA	120mA	120mA	120mA
Max. current to outputs (supplied by set top box)	27mA	27mA	38mA	38mA	29mA	29mA
Power Consumption (typ.)	0,5W	0,5W	0,5W	0,5W	0,5W	0,5W
Temperature range	0...+55 °C°C	0...+55 °C°C	0...+55 °C°C	0...+55 °C°C	0...+55 °C°C	0...+55 °C°C
CONNECTORS						
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow					
Connector Type	F-female					
DC input connector	N/A (Built-in PSU)					
Number of inputs	5	5	5	5	5	5
Subscriber outputs	6	8	12	16	24	32
MECHANICAL						
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	110mm	110mm	110mm	110mm	140mm	140mm
Width (mm)	222mm	222mm	310mm	310mm	324mm	324mm
Height (mm)	57mm	57mm	57mm	57mm	63mm	63mm
Material	steel metal cabinet					
Packing QTY	1	1	1	1	1	1

TRIAX® multiswitch solutions

standalone, passive TER, EU mains plug



Common features - Standalone switches

- The best solution for installations of between 6 and 32 satellite receivers within relatively short distance from each other and the switch.
- Active Terrestrial: for when you need a terrestrial TV input alongside the satellite signal.
- EU mains plug: where mains power is available.



TMS 908 SE P-EU

Art. No. 318208

EAN Number
5702663182080



TMS 912 SE P-EU

Art. No. 318216

EAN Number
5702663182165



TMS 916 SE P-EU

Art. No. 318226

EAN Number
5702663182264



TMS 924 SE P-EU

Art. No. 318236

EAN Number
5702663182363



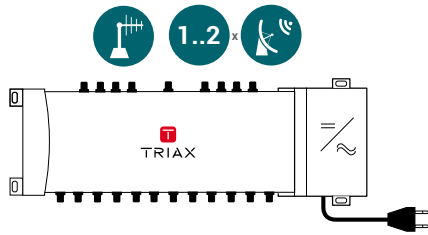
TMS 932 SE P-EU

Art. No. 318246

EAN Number
5702663182462

TRIAX[®] multiswitch solutions

2 positions



8 12 16 24 32

Type:	TMS 908 SE P-EU	TMS 912 SE P-EU	TMS 916 SE P-EU	TMS 924 SE P-EU	TMS 932 SE P-EU
Art. no.	318208	318216	318226	318236	318246
CHARACTERISTICS					
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	passivedBμV	passivedBμV	passivedBμV	passivedBμV	passivedBμV
Switch commands	13/18 V, 0/22 kHz, DiSEqC 1.0				
FREQUENCY					
Frequency range SAT	950...2400MHz				
Frequency range TER	5...862MHz				
GAIN					
Gain - SAT (with 5 dB slope)	-5...+2 ±2dB	-2...+2 ±2dB	-2...+2 ±2dB	-2...+2 ±2dB	-2...+2 ±2dB
Gain - TER [47-862 MHz]	-15 ±3dB	-32 ±3dB	-32 ±3dB	-32 ±3dB	-32 ±3dB
ISOLATION					
Isolation cross polarisation H/V	typ. 30dB				
Isolation SAT to TER	typ. 30dB				
RETURN LOSS					
Return loss SAT inputs	>10dB				
Return loss SAT outputs	>10dB				
Return loss TER inputs	>10dB				
Return loss TER outputs	>10dB				
ELECTRICAL					
Impedance	75Ω				
OPERATIONAL					
Control LEDs	Green LED (Power)				
Max. current to each output (supplied by set top box)	35mA	43mA	43mA	43mA	43mA
Power Consumption (typ.)	0,5W	0,5W	0,5W	0,5W	0,5W
Temperature range	0...+55 °C	0...+55 °C	0...+55 °C	0...+55 °C	0...+55 °C
CONNECTORS					
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow				
Connector Type	F-female				
DC input connector	N/A (Built-in PSU)				
Number of inputs	9	9	9	9	9
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	110mm	198mm	198mm	198mm	198mm
Width (mm)	270mm	272mm	272mm	390mm	390mm
Height (mm)	63mm	63mm	63mm	63mm	63mm
Material	steel metal cabinet				
Packing QTY	1	1	1	1	1

TRIAX® multiswitch solutions

standalone, passive TER, EU mains plug



Common features - Standalone switches

- The best solution for installations of between 6 and 32 satellite receivers within relatively short distance from each other and the switch.
- Active Terrestrial: for when you need a terrestrial TV input alongside the satellite signal.
- EU mains plug: where mains power is available.



TMS 1308 SE P-EU

Art. No. 318306

EAN Number
5702663183063



TMS 1312 SE P-EU

Art. No. 318314

EAN Number
5702663183148



TMS 1316 SE P-EU

Art. No. 318322

EAN Number
5702663183223



TMS 1324 SE P-EU

Art. No. 318330

EAN Number
5702663183308



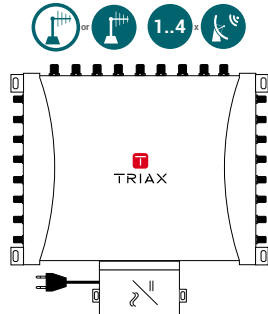
TMS 1332 SE P-EU

Art. No. 318338

EAN Number
5702663183384

TRIAX® multiswitch solutions

3 positions



6 8 12 16 24 32

Legend:



6 8 12 16 24 28 32

Numbers of subscriber outputs from the multiswitch

Type:	TMS 1308 SE P-EU Stand-alone	TMS 1312 SE P-EU Stand-alone	TMS 1316 SE P-EU Stand-alone	TMS 1324 SE P-EU Stand-alone	TMS 1332 SE P-EU Stand-alone
Art. no.	318306	318314	318322	318330	318338
CHARACTERISTICS					
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	passivedBμV	passivedBμV	passivedBμV	passivedBμV	passivedBμV
Switch commands	13/18 V, 0/22 kHz, DiSEqC 1.0				
FREQUENCY					
Frequency range SAT	950...2400MHz	950...2400MHz	950...2400MHz	950...2400MHz	950...2400MHz
Frequency range TER	5...862MHz	5...862MHz	5...862MHz	5...862MHz	5...862MHz
LOSS					
Insertion loss - SAT	-2...+2 ±2dB	-3...0 ±2dB	-3...0 ±2dB	-5...-2 ±2dB	-5...-2 ±2dB
Insertion loss - TER	-30 ±3dB	-30 ±3dB	-30 ±3dB	-33 ±3dB	-33 ±3dB
ISOLATION					
Isolation cross polarisation H/V				typ. 30dB	
Isolation SAT to TER				typ. 30dB	
RETURN LOSS					
Return loss SAT inputs				>10dB	
Return loss SAT outputs				>10dB	
Return loss TAP outputs				>10dB	
Return loss TER inputs				>10dB	
Return loss TER outputs				>10dB	
ELECTRICAL					
Impedance	75Ω				
OPERATIONAL					
Control LEDs	Green LED (Power)				
Max. current to each output (supplied by set top box)	68mA	68mA	68mA	68mA	68mA
AC Supply voltage	90...264 / 50...60HzVAC				
Power Consumption (typ.)	0,5W				
Temperature range	0...+55°C				
CONNECTORS					
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow				
Connector Type	F-female				
DC input connector	N/A (Built-in PSU)				
Number of inputs	13	13	13	13	13
Number of outputs	13	13	13	13	13
Number of trunk inputs	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER
Number of trunk outputs	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER
Power connector	EU Plug	EU Plug	EU Plug	EU Plug	EU Plug
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	286mm	286mm	286mm	286mm	286mm
Width (mm)	272mm	272mm	272mm	395mm	395mm
Height (mm)	63mm	63mm	63mm	63mm	63mm
Material	steel metal cabinet				
Packing QTY	1	1	1	1	1

TRIAX® multiswitch solutions

standalone, passive TER, EU mains plug



Common features - Standalone switches

- The best solution for installations of between 6 and 32 satellite receivers within relatively short distance from each other and the switch.
- Active Terrestrial: for when you need a terrestrial TV input alongside the satellite signal.
- EU mains plug: where mains power is available.



TMS 1708 SE P-EU

Art. No. 318402

EAN Number
5702663184022



TMS 1724 SE P-EU

Art. No. 318430

EAN Number
5702663184305



TMS 1712 SE P-EU

Art. No. 318414

EAN Number
5702663184145



TMS 1732 SE P-EU

Art. No. 318438

EAN Number
5702663184381



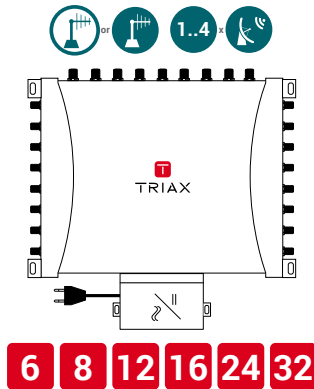
TMS 1716 SE P-EU

Art. No. 318422

EAN Number
5702663184220

TRIAX[®] multiswitch solutions

4 positions



Legend:



6 8 12 16 24 28 32

Numbers of subscriber outputs from the multiswitch

Type:	TMS 1708 SE P-EU Stand-alone	TMS 1712 SE P-EU Stand-alone	TMS 1716 SE P-EU Stand-alone	TMS 1724 SE P-EU Stand-alone	TMS 1732 SE P-EU Stand-alone
Art. no.	318402	318414	318422	318430	318438
CHARACTERISTICS					
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	passive	passive	passive	passive	passived
Switch commands	13/18 V, 0/22 kHz, DiSEqC 1.0				
FREQUENCY					
Frequency range SAT	950...2400MHz				
Frequency range TER	5...862MHz				
GAIN					
Gain - SAT (with 5 dB slope)	-2...+2 ±2dB	-3...0 ±2dB	-3...0 ±2dB	-5...-2 ±2dB	-5...-2 ±2dB
Gain - TER [47-862 MHz]	-30 ±3dB	-30 ±3dB	-30 ±3dB	-33 ±3dB	-33 ±3dB
ISOLATION					
Isolation cross polarisation H/V	typ. 30dB	typ. 30dB	typ. 30dB	typ. 30dB	typ. 30dB
Isolation SAT to TER	typ. 30dB	typ. 30dB	typ. 30dB	typ. 30dB	typ. 30dB
RETURN LOSS					
Return loss SAT inputs	>10dB				
Return loss SAT outputs	>10dB				
Return loss TER inputs	>10dB				
Return loss TER outputs	>10dB				
ELECTRICAL					
Impedance	75Ω				
OPERATIONAL					
Control LEDs	Green LED (Power)				
Max. current to each output (supplied by set top box)	68mA	68mA	68mA	68mA	68mA
Power Consumption (typ.)	6,5W	5,5W	5,5W	5,5W	5,5W
Temperature range	0...+55 °C°C	0...+55 °C°C	0...+55 °C°C	0...+55 °C°C	0...+55 °C°C
CONNECTORS					
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow				
Connector Type	F-female	F-female	F-female	F-female	F-female
DC input connector	N/A (Built-in PSU)	N/A (Built-in PSU)	N/A (Built-in PSU)	N/A (Built-in PSU)	N/A (Built-in PSU)
Number of inputs	17	17	17	17	17
Number of outputs	17	17	17	17	17
Number of trunk inputs	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER
Number of trunk outputs	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	286mm	286mm	286mm	286mm	286mm
Width (mm)	272mm	272mm	272mm	395mm	395mm
Height (mm)	63mm	63mm	63mm	63mm	63mm
Material	steel metal cabinet				
Packing QTY	1	1	1	1	1

TRIAX[®] multiswitch solutions

standalone, passive TER, built in PSU, EU mains plug



Common features - Standalone switches

- The best solution for installations of between 6 and 32 satellite receivers within relatively short distance from each other and the switch.
- Active Terrestrial: for when you need a terrestrial TV input alongside the satellite signal.
- EU mains plug: where mains power is available.



**TMS 5x4 P - Stand alone
4SAT+1TER+PSU / 4out**

Art. No. 300324

EAN Number
5702663003248



**TMS 5x12 P - Stand alone
4SAT+1TER+PSU / 12out**

Art. No. 300322

EAN Number
5702663003224



**TMS 5x6 P - Stand alone
4SAT+1TER+PSU / 6out**

Art. No. 300326

EAN Number
5702663003262



**TMS 5x16 P - Stand alone
4SAT+1TER+PSU / 16out**

Art. No. 300327

EAN Number
5702663003279



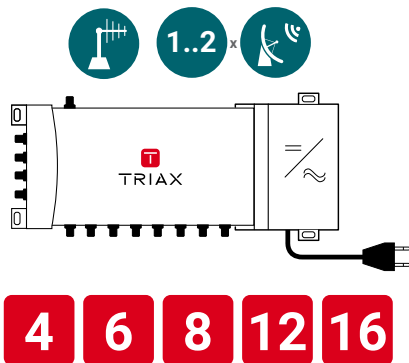
**TMS 5x8 P - Stand alone
4SAT+1TER+PSU / 8out**

Art. No. 300328

EAN Number
5702663003286

TRIAX[®] multiswitch solutions

1 position



Legend:



6 8 12 16 24 28 32

Numbers of subscriber outputs from the multiswitch

Type:	TMS 5x4 P Stand-alone	TMS 5x6P Stand alone	TMS 5x8P Stand alone	TMS 5x12P Stand alone	TMS 5x16P Stand alone
Art. no.	300324	300326	300328	300322	300327
CHARACTERISTICS					
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	88dBμV	85dBμV	85dBμV	85dBμV	85dBμV
Switch commands	13/18 V, 0/22 kHz				
FREQUENCY					
Frequency range SAT	950-2150MHz				
Frequency range TER	47-862MHz				
GAIN					
Gain - SAT (5 dB slope)	- 4dB		-5dB		
Gain - TER [47-862 MHz]	4.0dB	3.0dB	3.0dB	0	4.0dB
ISOLATION					
Cross polarisation H/V	25dB	28dB	28dB	25dB	25dB
Isolation out-out SAT	30dB	35dB	35dB	35dB	35dB
Isolation out-out TER	28dB	28dB	28dB	28dB	28dB
Isolation SAT to TER	22dB	28dB	28dB	22dB	22dB
Isolation TER to SAT	22dB	25dB	25dB	22dB	22dB
RETURN LOSS					
Return loss SAT inputs	10dB	12dB	12dB	11dB	10dB
Return loss SAT outputs	8dB	7dB	7dB	8dB	8dB
Return loss TER inputs	10dB	11dB	11dB	11dB	10dB
Return loss TER outputs	8dB	7dB	7dB	8dB	8dB
ELECTRICAL					
Impedance	75Ω	75Ω	75Ω	75Ω	75Ω
OPERATIONAL					
Max. current pass per F-connector	600mA	600mA	600mA	600mA	600mA
Temperature range	-20...+55°C				
CONNECTORS					
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow				
Connector Type	F-female				
Number of inputs	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER
Subscriber outputs	4	6	8	12	16
MECHANICAL					
Depth (mm)	103mm	103mm	103mm	103mm	103mm
Width (mm)	359mm	359mm	359mm	459mm	559mm
Height (mm)	71mm	71mm	71mm	71mm	71mm
Packing QTY	1	1	1	1	1

TRIAX® multiswitch solutions

standalone, passive TER, powered by receiver



Common features - Standalone switches

- The best solution for installations of between 6 and 32 satellite receivers within relatively short distance from each other and the switch.
- Active Terrestrial: for when you need a terrestrial TV input alongside the satellite signal.
- EU mains plug: where mains power is available.



TMS 508 SE P-R

Art. No. 318110

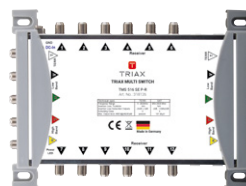
EAN Number
5702663181106



TMS 512 SE P-R

Art. No. 318118

EAN Number
5702663181182



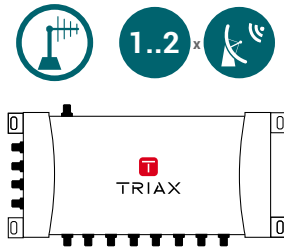
TMS 516 SE P-R

Art. No. 318126

EAN Number
5702663181267

TRIAX® multiswitch solutions

1 position



Legend:



Passive
Terrestrial
loopthrough



Active
Terrestrial
loopthrough



1...4
satellite
positions

6 8 12 16 24 28 32

Numbers of
subscriber outputs
from the multiswitch

6 8 12 16 24 28 32

Type:	TMS 508 SE P-R	TMS 512 SE P-R	TMS 516 SE P-R
Art. no.	Stand-alone 318110	Stand-alone 318118	Stand-alone 318126
CHARACTERISTICS			
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	passive	passive	passive
Switch commands		13/18 V, 0/22 kHz	
FREQUENCY			
Frequency range SAT		950...2400MHz	
Frequency range TER		5...862MHz	
GAIN			
Gain - SAT (5 dB slope)	-2...+3 ±2dB	-2...+3 ±2dB	-2...+3 ±2dB
Gain - TER [47-862 MHz]	-15 ±3dB	-33 ±3dB	-33 ±3dB
ISOLATION			
Cross polarisation H/V		typ. 30dB	
Isolation SAT to TER		typ. 30dB	
Isolation TER to SAT		typ. 30dB	
RETURN LOSS			
Return loss SAT inputs		>10dB	
Return loss SAT outputs		>10dB	
Return loss TER inputs		>10dB	
Return loss TER outputs		>10dB	
ELECTRICAL			
Impedance		75Ω	
OPERATIONAL			
Control LEDs		Green LED (Power)	
Max. current to outputs (supplied by set top box)	27mA	38mA	38mA
Temperature range	-20... 70 °C°C	-20... 70 °C°C	-20... 70 °C°C
CONNECTORS			
Colourcoding on inputs		VL=Black, VH=Red, HL=Green, HH=Yellow	
Connector Type		F-female	
DC input connector		N/A (power is sourced from STB only)	
Number of inputs	5	5	5
Subscriber outputs	8	12	16
MECHANICAL			
Colour	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	110mm	110mm	110mm
Width (mm)	130mm	215mm	215mm
Height (mm)	45mm	45mm	45mm
Material	steel metal cabinet	steel metal cabinet	steel metal cabinet
Packing QTY	1	1	1

TRIAX[®] multiswitch solutions

standalone, passive TER, powered by receiver



Common features - Standalone switches

- The best solution for installations of between 6 and 32 satellite receivers within relatively short distance from each other and the switch.
- Active Terrestrial: for when you need a terrestrial TV input alongside the satellite signal.
- EU mains plug: where mains power is available.



TMS 908 SE P-R

Art. No. 318210

EAN Number
5702663182103



TMS 916 SE P-R

Art. No. 318228

EAN Number
5702663182288



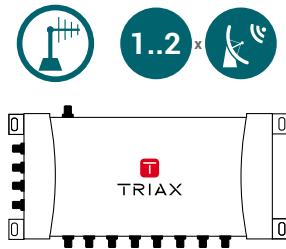
TMS 912 SE P-R

Art. No. 318218

EAN Number
5702663182189

TRIAX[®] multiswitch solutions

2 positions



Legend:



6 8 12 16 24 28 32

Numbers of subscriber outputs from the multiswitch

6 8 12 16 24 28 32

Type:	TMS 908 SE P-R Stand-alone	TMS 912 SE P-R Stand-alone	TMS 916 SE P-R Stand-alone
Art. no.	318210	318218	318228
CHARACTERISTICS			
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	passivedBμV	passivedBμV	passivedBμV
Switch commands	13/18 V, 0/22 kHz, DiSEqC 1.0		
FREQUENCY			
Frequency range SAT	950...2400MHz		
Frequency range TER	5...862MHz		
LOSS			
Insertion loss - SAT	-5...+2 ±2dB	-2...+2 ±2dB	-2...+2 ±2dB
Insertion loss - TER	-15 ±3dB	-32 ±3dB	-32 ±3dB
ISOLATION			
Isolation cross polarisation H/V	typ. 30dB		
Isolation SAT to TER	typ. 30dB		
RETURN LOSS			
Return loss SAT inputs	>10dB		
Return loss SAT outputs	>10dB		
Return loss TAP outputs	>10dB		
Return loss TER inputs	>10dB		
Return loss TER outputs	>10dB		
ELECTRICAL			
Impedance	75Ω		
OPERATIONAL			
Control LEDs	Green LED (Power)		
Max. current to each output (supplied by set top box)	56mA	56mA	56mA
AC Supply voltage	90...264 / 50...60HzVAC	90...264 / 50...60HzVAC	90...264 / 50...60HzVAC
Temperature range	-20... 70°C	-20... 70°C	-20... 70°C
CONNECTORS			
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow		
Connector Type	F-female		
DC input connector	N/A (power is sourced from STB only)		
Number of inputs	9	9	9
Subscriber outputs	8	12	16
MECHANICAL			
Colour	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	110mm	198mm	198mm
Width (mm)	230mm	272mm	272mm
Height (mm)	63mm	63mm	63mm
Material	steel metal cabinet		
Packing QTY	1	1	1

TRIAX® multiswitch solutions

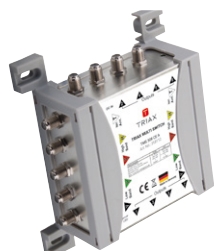
cascadable, active TER, for external PSU



Common features - Cascadable switches

- In contrast to standalone multiswitches, a cascadable system can be extended to become a solution covering a very large number of end-users /satellite receivers.
- If your building layout means that users live on different floors, resulting in variable cable lengths from the multiswitch to the end-user apartment, a cascadable

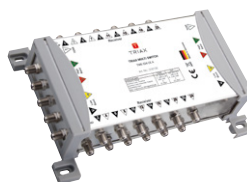
multiswitch installation is the best solution. Cascadable means that every multiswitch has its standard input from the LNBs, but furthermore has outputs, where the LNB signal can be conveyed further down the building floors to additional multiswitches.



TMS 508 CE A

Art. No. 318112

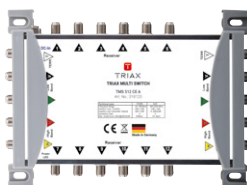
EAN Number
5702663181120



TMS 524 CE A

Art. No. 318138

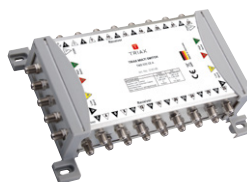
EAN Number
5702663181380



TMS 512 CE A

Art. No. 318120

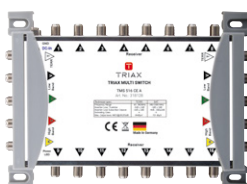
EAN Number
5702663181205



TMS 532 CE A

Art. No. 318148

EAN Number
5702663181489



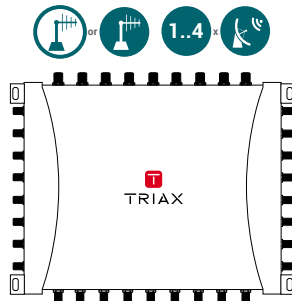
TMS 516 CE A

Art. No. 318128

EAN Number
5702663181281

TRIAX[®] multiswitch solutions

1 position



8 12 16 24 28 32

Legend:



6 8 12 16 24 28 32

Numbers of subscriber outputs from the multiswitch

Type:	TMS 508 CE A Cascadable	TMS 512 CE A Cascadable	TMS 516 CE A Cascadable	TMS 524 CE A Cascadable	TMS 532 CE A Cascadable
Art. no.	318112	318120	318128	318138	318148
CHARACTERISTICS					
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	84dBμV	84dBμV	84dBμV	91dBμV	91dBμV
Switch commands	13/18 V, 0/22 kHz				
FREQUENCY					
Frequency range SAT	950...2400MHz				
Frequency range TER	40...862MHz				
GAIN					
Gain - SAT (with 5 dB slope)	-4...0 ±2dB	-4...0 ±2dB	-4...0 ±2dB	-4...0 ±2dB	-4...0 ±2dB
Gain - TER [47-862 MHz]	-2 ±2dB	-3 ±3dB	-3 ±3dB	-3 ±3dB	-3 ±3dB
LOSS					
Through loss - Trunk SAT	-2...-4 ±2dB	-3 ±2dB	-3 ±2dB	-2...-6 ±2dB	-2...-6 ±2dB
Through loss - Trunk TER	-3 ±2dB	-2 ±2dB	-3 ±2dB	-2...-6 ±2dB	-2...-6 ±2dB
ISOLATION					
Cross polarisation H/V	typ. 30dB				
Isolation SAT to TER	typ. 30dB				
RETURN LOSS					
Return loss SAT inputs	>10dB				
Return loss SAT outputs	>10dB				
Return loss TER inputs	>10dB				
Return loss TER outputs	>10dB				
ELECTRICAL					
Impedance	75Ω				
OPERATIONAL					
Control LEDs	Green LED (Power)				
Max. current to each output (supplied by set top box)	35mA	35mA	35mA	29mA	29mA
Temperature range	-20... 70°C				
CONNECTORS					
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow				
Connector Type	F-female				
DC input connector	5.5 / 2.1 mm				
Number of inputs	5	5	5	5	5
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	140mm	140mm	140mm	140mm	140mm
Width (mm)	140mm	220mm	220mm	240mm	240mm
Height (mm)	63mm	63mm	63mm	63mm	63mm
Material	steel metal cabinet				
Packing QTY	1	1	1	1	1

TRIAX® multiswitch solutions

cascadable, active TER, for external PSU



Common features - Cascadable switches

- In contrast to standalone multiswitches, a cascadable system can be extended to become a solution covering a very large number of end-users /satellite receivers.
- If your building layout means that users live on different floors, resulting in variable cable lengths from the multiswitch to the end-user apartment, a cascadable

multiswitch installation is the best solution. Cascadable means that every multiswitch has its standard input from the LNBs, but furthermore has outputs, where the LNB signal can be conveyed further down the building floors to additional multiswitches.



TMS 908 CE A

Art. No. 318211

EAN Number
5702663182110



TMS 924 CE A

Art. No. 318240

EAN Number
5702663182400



TMS 912 CE A

Art. No. 318220

EAN Number
5702663182202



TMS 932 CE A

Art. No. 318250

EAN Number
5702663182509



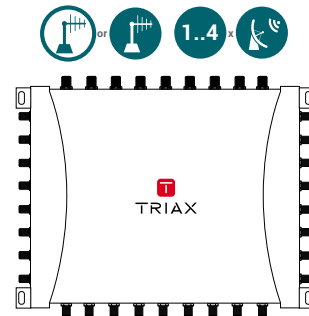
TMS 916 CE A

Art. No. 318230

EAN Number
5702663182301

TRIAX[®] multiswitch solutions

2 positions



8 12 16 24 28 32

Type:	TMS 908 CE A Cascadable	TMS 912 CE A Cascadable	TMS 916 CE A Cascadable	TMS 924 CE A Cascadable	TMS 932 CE A Cascadable
Art. no.	318211	318220	318230	318240	318250
CHARACTERISTICS					
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	88dBμV	88dBμV	88dBμV	90dBμV	90dBμV
Switch commands	13/18 V, 0/22 kHz, DiSEqC 1.0				
FREQUENCY					
Frequency range SAT	950...2400MHz				
Frequency range TER	40...862MHz				
GAIN					
Gain - SAT (with 5 dB slope)	-0...+2 ±2dB	-2...0 ±2dB	-2...0 ±2dB	-2...0 ±2dB	-2...0 ±2dB
Gain - TER [47-862 MHz]	-2 ±2dB	-2 ±2dB	-2 ±2dB	-2 ±2dB	-2 ±2dB
LOSS					
Through loss - Trunk SAT	-1 ±1dB	-2 ±2dB	-2 ±2dB	-2... -4 ±2dB	-2... -4 ±2dB
Through loss - Trunk TER	-2 ±2dB	-2 ±2dB	-2 ±2dB	-2 ±4dB	-2 ±4dB
ISOLATION					
Isolation cross polarisation H/V	typ. 30dB				
Isolation SAT to TER	typ. 30dB				
RETURN LOSS					
Return loss SAT inputs	>10dB				
Return loss SAT outputs	>10dB				
Return loss TER inputs	>10dB				
Return loss TER outputs	>10dB				
ELECTRICAL					
Impedance	75Ω				
OPERATIONAL					
Control LEDs	Green LED (Power)				
Temperature range	-20... 70 °C°C				
CONNECTORS					
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow				
Connector Type	F-female				
DC input connector	5.5 / 2.1 mm				
Number of inputs	9	9	9	9	9
Number of outputs	9	9	9	9	9
Number of trunk inputs	2 SAT, 1 TER	2 SAT, 1 TER	2 SAT, 1 TER	2 SAT, 1 TER	2 SAT, 1 TER
Number of trunk outputs	2 SAT, 1 TER	2 SAT, 1 TER	2 SAT, 1 TER	2 SAT, 1 TER	2 SAT, 1 TER
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	198mm	198mm	198mm	198mm	198mm
Width (mm)	124mm	185mm	185mm	302mm	302mm
Height (mm)	63mm	63mm	63mm	63mm	63mm
Material	steel metal cabinet				
Packing QTY	1	1	1	1	1

TRIAX[®] multiswitch solutions

cascadable, active TER, for external PSU



Common features - Cascadable switches

- In contrast to standalone multiswitches, a cascadable system can be extended to become a solution covering a very large number of end-users /satellite receivers.
- If your building layout means that users live on different floors, resulting in variable cable lengths from the multiswitch to the end-user apartment, a cascadable

multiswitch installation is the best solution. Cascadable means that every multiswitch has its standard input from the LNBs, but furthermore has outputs, where the LNB signal can be conveyed further down the building floors to additional multiswitches.



TMS 1308 CE A

Art. No. 318312

EAN Number
5702663183124



TMS 1324 CE A

Art. No. 318336

EAN Number
5702663183360



TMS 1312 CE A

Art. No. 318320

EAN Number
5702663183209



TMS 1332 CE A

Art. No. 318344

EAN Number
5702663183445



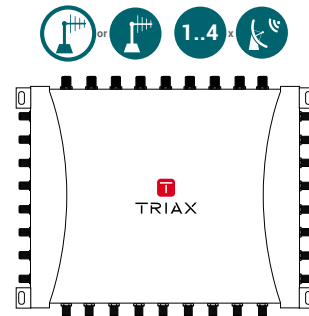
TMS 1316 CE A

Art. No. 318328

EAN Number
5702663183285

TRIAX[®] multiswitch solutions

3 positions



8 12 16 24 28 32

Type:	TMS 1308 CE A Cascadable	TMS 1312 CE A Cascadable	TMS 1316 CE A Cascadable	TMS 1324 CE A Cascadable	TMS 1332 CE A Cascadable
Art. no.	318312	318320	318328	318336	318344
CHARACTERISTICS					
Max. output level SAT @ -35 dB IMD3	105dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	88dBμV	90dBμV	90dBμV	90dBμV	90dBμV
Switch commands	13/18 V, 0/22 kHz, DiSEqC 1.0				
FREQUENCY					
Frequency range SAT	950...2400MHz				
Frequency range TER	5...862MHz				
GAIN					
Gain - SAT (with 5 dB slope)	-2...+2 ±2dB	-3...0 ±2dB	-3...0 ±2dB	-5...-2 ±2dB	-5...-2 ±2dB
Gain - TER [47-862 MHz]	-2...+2 ±2dB	-3 ±3dB	-3 ±3dB	-3 ±3dB	-3 ±3dB
LOSS					
Through loss - Trunk SAT	-2 ±2dB	-2 ±2dB	-2 ±2dB	-2...-5 ±2dB	-2...-5 ±2dB
Through loss - Trunk TER	-2 ±2dB	-2 ±2dB	-2 ±2dB	-4 ±2dB	-4 ±2dB
ISOLATION					
Isolation cross polarisation H/V	typ. 30dB				
Isolation SAT to TER	typ. 30dB				
RETURN LOSS					
Return loss SAT inputs	>10dB				
Return loss SAT outputs	>10dB				
Return loss TER inputs	>10dB				
Return loss TER outputs	>10dB				
ELECTRICAL					
Impedance	75Ω				
OPERATIONAL					
Control LEDs	Green LED (Power)				
DC Operating voltage	15VDC				
Max. current to each output (supplied by set top box)	68mA				
Temperature range	-20... 70 °C°C				
CONNECTORS					
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow				
Connector Type	F-female				
DC input connector	5.5 / 2.1 mm				
Number of inputs	13	13	13	13	13
Number of outputs	13	13	13	13	13
Number of trunk inputs	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER
Number of trunk outputs	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	286mm	286mm	286mm	286mm	286mm
Width (mm)	186mm	185mm	185mm	304mm	304mm
Height (mm)	63mm	63mm	63mm	63mm	63mm
Material	steel metal cabinet				
Packing QTY	1	1	1	1	1
Remarks	Made in Germany				

TRIAX[®] multiswitch solutions

cascadable, active TER, for external PSU



Common features - Cascadable switches

- In contrast to standalone multiswitches, a cascadable system can be extended to become a solution covering a very large number of end-users /satellite receivers.
- If your building layout means that users live on different floors, resulting in variable cable lengths from the multiswitch to the end-user apartment, a cascadable

multiswitch installation is the best solution. Cascadable means that every multiswitch has its standard input from the LNBs, but furthermore has outputs, where the LNB signal can be conveyed further down the building floors to additional multiswitches.



TMS 1708 CE A

Art. No. 318412

EAN Number
5702663184121



TMS 1712 CE A

Art. No. 318420

EAN Number
5702663184206



TMS 1716 CE A

Art. No. 318428

EAN Number
5702663184282



TMS 1724 CE A

Art. No. 318436

EAN Number
5702663184367



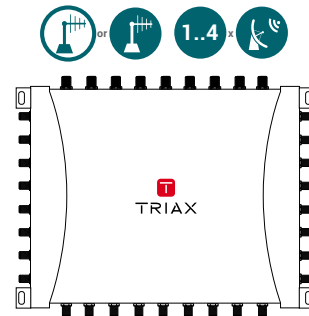
TMS 1732 CE A

Art. No. 318444

EAN Number
5702663184442

TRIAX[®] multiswitch solutions

4 positions



8 12 16 24 28 32

Type:	TMS 1708 CE A	TMS 1712 CE A	TMS 1716 CE A	TMS 1724 CE A	TMS 1732 CE A
Art. no.	Cascadable 318412	Cascadable 318420	Cascadable 318428	Cascadable 318436	Cascadable 318444
CHARACTERISTICS					
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	88dBμV	88dBμV	88dBμV	90dBμV	90dBμV
Switch commands	13/18 V, 0/22 kHz, DiSEqC 1.0				
FREQUENCY					
Frequency range SAT	950...2400MHz				
Frequency range TER	40...862MHz				
GAIN					
Gain - SAT (with 5 dB slope)	-2...+2 ±2dB	-3...0 ±2dB	-3...0 ±2dB	-5...-2 ±2dB	-5...-2 ±2dB
Gain - TER [47-862 MHz]	-2 ±2dB	-3 ±3dB	-3 ±3dB	-3 ±3dB	-3 ±3dB
LOSS					
Through loss - Trunk SAT	-2 ±2dB	-2 ±2dB	-2 ±2dB	-2...-5 ±2dB	-2...-5 ±2dB
Through loss - Trunk TER	-2 ±2dB	-2 ±2dB	-2 ±2dB	-4 ±2dB	-4 ±2dB
ISOLATION					
Isolation cross polarisation H/V				typ. 30dB	
Isolation SAT to TER				typ. 30dB	
RETURN LOSS					
Return loss SAT inputs				>10dB	
Return loss SAT outputs				>10dB	
Return loss TER inputs				>10dB	
Return loss TER outputs				>10dB	
ELECTRICAL					
Impedance				75Ω	
OPERATIONAL					
Control LEDs	Green LED (Power)				
Max. current to each output (supplied by set top box)				68mA	
Temperature range	-20... 70°C				
CONNECTORS					
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow				
Connector Type	F-female				
DC input connector	5.5 / 2.1 mm				
Number of inputs	17	17	17	17	17
Number of outputs	17	17	17	17	17
Number of trunk inputs	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER
Number of trunk outputs	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	286mm	286mm	286mm	286mm	286mm
Width (mm)	186mm	185mm	185mm	304mm	304mm
Height (mm)	63mm	63mm	63mm	63mm	63mm
Material	steel metal cabinet				
Packing QTY	1	1	1	1	1

TRIAX® multiswitch solutions

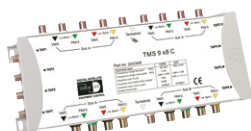
cascadable, active TER, for external PSU



Common features - Cascadable switches

- In contrast to standalone multiswitches, a cascadable system can be extended to become a solution covering a very large number of end-users /satellite receivers.
- If your building layout means that users live on different floors, resulting in variable cable lengths from the multiswitch to the end-user apartment, a cascadable

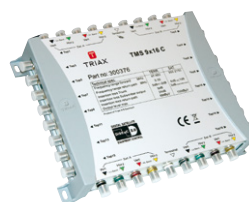
multiswitch installation is the best solution. Cascadable means that every multiswitch has its standard input from the LNBs, but furthermore has outputs, where the LNB signal can be conveyed further down the building floors to additional multiswitches.



**TMS 9x8C - Casc.
8SAT+1TER / 8out**

Art. No. 300368

EAN Number
5702663003682



**TMS 9x20C - Casc.
8SAT+1TER / 20out**

Art. No. 300388

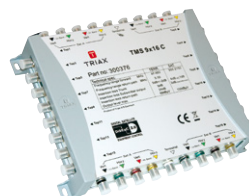
EAN Number
5702663003880



**TMS 9x12C - Casc.
8SAT+1TER / 12out**

Art. No. 300372

EAN Number
5702663003729



**TMS 9x24C - Casc.
8SAT+1TER / 24out**

Art. No. 300389

EAN Number
5702663003897



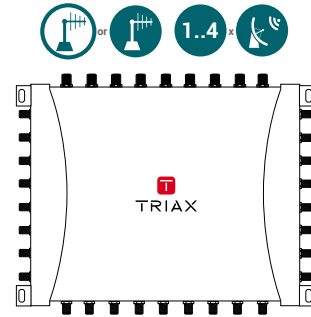
**TMS 9x16C - Casc.
8SAT+1TER / 16out**

Art. No. 300376

EAN Number
5702663003767

TRIAX[®] multiswitch solutions

4 positions



8 12 16 24 28 32

Type:	TMS 9x8C Cascadable	TMS 9x12C Cascadable	TMS 9x16C Cascadable	TMS 9x20C Cascadable	TMS 9x24C Cascadable
Art. no.	300368	300372	300376	300388	300389
CHARACTERISTICS					
Max. output level					
SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level					
TER @ 60dB IMD3	88dBμV	88dBμV	88dBμV	88dBμV	88dBμV
Switching	14V/18V - 14V/22kHz - 18V/22kHz - DiSeqC 2.0kHz				
FREQUENCY					
Frequency range SAT	950-2150MHz				
Frequency range TER	5-862 (active)MHz				
GAIN					
SAT (5 dB slope)	-3.0 to 2.0dB	-3.0 to 2.0dB	-3.0 to 2.0dB	-3.0 to 2.0dB	-3.0 to 2.0dB
TER [47-862 MHz]	-9dB	-9dB	-9dB	-9dB	-32dB
LOSS					
Insertion - trunkline SAT	4.0 (± 2.0)dB	4.0 (± 2.0)dB	6.0 (± 2.0)dB	7.0 (± 2.0)dB	7.0 (± 2.0)dB
Insertion - trunkline TER	5.0 (± 1.0)dB	5.0 (± 1.0)dB	5.0 (± 1.0)dB	5.0 (± 1.0)dB	5.0 (± 1.0)dB
ISOLATION					
Cross polarisation H/V	28dB				
Isolation LNB to LNB	35dB				
Isolation out-out SAT	30dB				
Isolation out-out TER	28dB				
Isolation SAT to TER	28dB				
Isolation TER to SAT	23dB				
RETURN LOSS					
Return loss SAT inputs	13dB				
Return loss SAT outputs	8dB				
Return loss TER inputs	11dB				
Return loss TER outputs	8dB				
ELECTRICAL					
Impedance	75Ω				
OPERATIONAL					
DC Operating voltage	15.0 ±1.0VDC				
Max. current per F-con.	500mA				
Temperature range	-20...+55°C				
CONNECTORS					
Colourcoding on inputs	Yes				
Connector Type	F-female				
Number of inputs	8 SAT, 1 TER	8 SAT, 1 TER	8 SAT, 1 TER		
Number of trunk inputs	8 SAT, 1 TER	8 SAT, 1 TER	8 SAT, 1 TER	8 SAT, 1 TER	8 SAT, 1 TER
Number of trunk outputs	8 SAT, 1 TER	8 SAT, 1 TER	8 SAT, 1 TER	8 SAT, 1 TER	8 SAT, 1 TER
Subscriber outputs	8	8	16	20	24
MECHANICAL					
Depth (mm)	240mm	240mm	240mm	240mm	240mm
Width (mm)	253mm	257mm	257mm	300mm	300mm
Height (mm)	51mm	51mm	51mm	51mm	51mm
Length (mm)	mm	mm	mm	mm	mm
Packing QTY	1	1	1	1	1

TRIAX® multiswitch solutions

cascadable, passive TER, for external PSU



Common features - Cascadable switches

- In contrast to standalone multiswitches, a cascadable system can be extended to become a solution covering a very large number of end-users /satellite receivers.
- If your building layout means that users live on different floors, resulting in variable cable lengths from the multiswitch to the end-user apartment, a cascadable

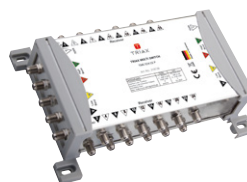
multiswitch installation is the best solution. Cascadable means that every multiswitch has its standard input from the LNBs, but furthermore has outputs, where the LNB signal can be conveyed further down the building floors to additional multiswitches.



TMS 508 CE P

Art. No. 318114

EAN Number
5702663181144



TMS 524 CE P

Art. No. 318136

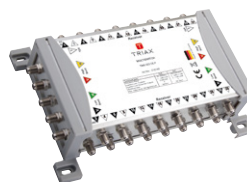
EAN Number
5702663181366



TMS 512 CE P

Art. No. 318122

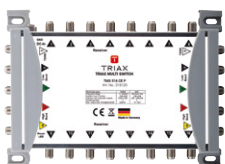
EAN Number
5702663181229



TMS 532 CE P

Art. No. 318146

EAN Number
5702663181465



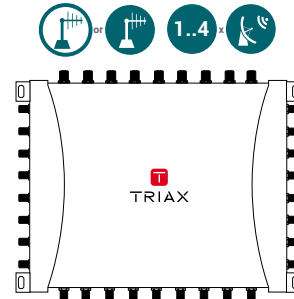
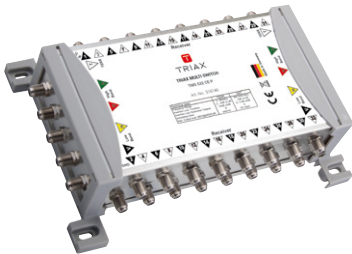
TMS 516 CE P

Art. No. 318129

EAN Number
5702663181298

TRIAX[®] multiswitch solutions

1 position



8 12 16 24 28 32

Type:	TMS 508 CE P Cascadable	TMS 512 CE P Cascadable	TMS 516 CE P Cascadable	TMS 524 CE P Cascadable	TMS 532 CE P Cascadable
Art. no.	318114	318122	318129	318136	318146
CHARACTERISTICS					
Max. output level SAT @ -35 dB					
IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB					
IMD3	passive	passive	passive	passive	passive
Switch commands	13/18 V, 0/22 kHz				
FREQUENCY					
Frequency range SAT	950...2400MHz				
Frequency range TER	5...862MHz				
GAIN					
Gain - SAT (with 5 dB slope)	-4...0 ±2dB	-4...0 ±2dB	-4...0 ±2dB	-4...0 ±2dB	-4...0 ±2dB
Gain - TER [47-862 MHz]	-15 ±3dB	-33 ±3dB	-33 ±3dB	-33 ±3dB	-33 ±3dB
LOSS					
Through loss - Trunk SAT	-2...-4 ±2dB	-3 ±2dB	-3 ±2dB	-2...-6 ±2dB	-2...-6 ±2dB
Through loss - Trunk TER	-3 ±2dB	-2 ±2dB	-3 ±2dB	-2...-6 ±2dB	-2...-6 ±2dB
ISOLATION					
Cross polarisation H/V	typ. 30dB				
Isolation SAT to TER	typ. 30dB				
RETURN LOSS					
Return loss SAT inputs	>10dB				
Return loss SAT outputs	>10dB				
Return loss TER inputs	>10dB				
Return loss TER outputs	>10dB				
ELECTRICAL					
Impedance	75Ω				
OPERATIONAL					
Control LEDs	Green LED (Power)				
Max. current to each output (supplied by set top box)	35mA	27mA	27mA	29mA	29mA
Temperature range	-20... 70 °C°C	-20... 70 °C°C	-20... 70 °C°C	-20... 70 °C°C	-20... 70 °C°C
CONNECTORS					
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow				
Connector Type	F-female	F-female	F-female	F-female	F-female
DC input connector	5.5 / 2.1 mm	5.5 / 2.1 mm	5.5 / 2.1 mm	5.5 / 2.1 mm	5.5 / 2.1 mm
Number of inputs	5	5	5	5	5
Number of outputs	5	5	5	5	5
Number of trunk inputs	1 SAT, 1 TER	1 SAT, 1 TER	1 SAT, 1 TER	1 SAT, 1 TER	1 SAT, 1 TER
Number of trunk outputs	1 SAT, 1 TER	1 SAT, 1 TER	1 SAT, 1 TER	1 SAT, 1 TER	1 SAT, 1 TER
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	140mm	140mm	140mm	140mm	140mm
Width (mm)	140mm	220mm	220mm	240mm	240mm
Height (mm)	63mm	63mm	63mm	63mm	63mm
Material	steel metal cabinet				
Packing QTY	1	1	1	1	1

TRIAX® multiswitch solutions

cascadable, passive TER, for external PSU



Common features - Cascadable switches

- In contrast to standalone multiswitches, a cascadable system can be extended to become a solution covering a very large number of end-users /satellite receivers.
- If your building layout means that users live on different floors, resulting in variable cable lengths from the multiswitch to the end-user apartment, a cascadable

multiswitch installation is the best solution. Cascadable means that every multiswitch has its standard input from the LNBs, but furthermore has outputs, where the LNB signal can be conveyed further down the building floors to additional multiswitches.



TMS 908 CE P

Art. No. 318212

EAN Number
5702663182127



TMS 924 CE P

Art. No. 318242

EAN Number
5702663182424



TMS 912 CE P

Art. No. 318222

EAN Number
5702663182226



TMS 932 CE P

Art. No. 318252

EAN Number
5702663182523



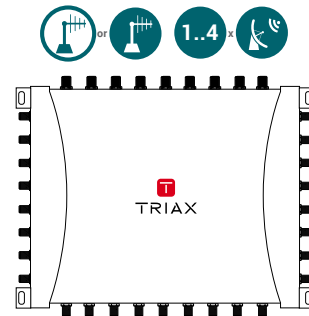
TMS 916 CE P

Art. No. 318232

EAN Number
5702663182325

TRIAX[®] multiswitch solutions

2 positions



8 12 16 24 28 32

Type:	TMS 908 CE P Cascadable	TMS 912 CE P Cascadable	TMS 916 CE P Cascadable	TMS 924 CE P Cascadable	TMS 932 CE P Cascadable
Art. no.	318212	318222	318232	318242	318252
CHARACTERISTICS					
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	passivedBμV	passivedBμV	passivedBμV	passivedBμV	passivedBμV
Switch commands	13/18 V, 0/22 kHz, DiSEqC 1.0				
FREQUENCY					
Frequency range SAT	950...2400MHz	950...2400MHz	950...2400MHz	950...2400MHz	950...2400MHz
Frequency range TER	5...862MHz	5...862MHz	5...862MHz	5...862MHz	5...862MHz
GAIN					
Gain - SAT (with 5 dB slope)	-0...+2 ±2dB	-2...0 ±2dB	-2...0 ±2dB	-2...0 ±2dB	-2...0 ±2dB
Gain - TER [47-862 MHz]	-26 ±2dB	-32 ±3dB	-32 ±3dB	-32 ±3dB	-32 ±3dB
LOSS					
Through loss - Trunk SAT	-1 ±1dB	-2 ±2dB	-2 ±2dB	-2... -4 ±2dB	-2... -4 ±2dB
Through loss - Trunk TER	-2 ±2dB	-2 ±2dB	-2 ±2dB	-2 ±4dB	-2 ±4dB
ISOLATION					
Cross polarisation H/V			typ. 30dB		
Isolation SAT to TER			typ. 30dB		
RETURN LOSS					
Return loss SAT inputs			>10dB		
Return loss SAT outputs			>10dB		
Return loss TER inputs			>10dB		
Return loss TER outputs			>10dB		
ELECTRICAL					
Impedance	75Ω				
OPERATIONAL					
Control LEDs	Green LED (Power)				
Max. current to each output (supplied by set top box)	43mA	43mA	43mA	43mA	43mA
Temperature range	-20... 70 °C°C	-20... 70 °C°C	-20... 70 °C°C	-20... 70 °C°C	-20... 70 °C°C
CONNECTORS					
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow				
Connector Type	F-female				
DC input connector	5.5 / 2.1 mm				
Number of inputs	9	9	9	9	9
Number of outputs	9	9	9	9	9
Number of trunk inputs	2 SAT, 1 TER	2 SAT, 1 TER	2 SAT, 1 TER	2 SAT, 1 TER	2 SAT, 1 TER
Number of trunk outputs	2 SAT, 1 TER	2 SAT, 1 TER	2 SAT, 1 TER	2 SAT, 1 TER	2 SAT, 1 TER
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	198mm	198mm	198mm	198mm	198mm
Width (mm)	124mm	185mm	185mm	302mm	302mm
Height (mm)	63mm	63mm	63mm	63mm	63mm
Material	steel metal cabinet				
Packing QTY	1	1	1	1	1

TRIAX[®] multiswitch solutions

cascadable, passive TER, for external PSU



Common features - Cascadable switches

- In contrast to standalone multiswitches, a cascadable system can be extended to become a solution covering a very large number of end-users /satellite receivers.
- If your building layout means that users live on different floors, resulting in variable cable lengths from the multiswitch to the end-user apartment, a cascadable

multiswitch installation is the best solution. Cascadable means that every multiswitch has its standard input from the LNBs, but furthermore has outputs, where the LNB signal can be conveyed further down the building floors to additional multiswitches.



TMS 1308 CE P

Art. No. 318310

EAN Number
5702663183100



TMS 1324 CE P

Art. No. 318334

EAN Number
5702663183346



TMS 1312 CE P

Art. No. 318318

EAN Number
5702663183186



TMS 1332 CE P

Art. No. 318342

EAN Number
5702663183421



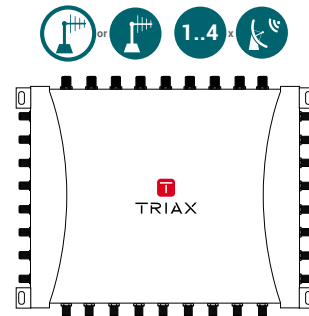
TMS 1316 CE P

Art. No. 318326

EAN Number
5702663183261

TRIAX[®] multiswitch solutions

3 positions



8 12 16 24 28 32

Type:	TMS 1308 CE P Cascadable	TMS 1312 CE P Cascadable	TMS 1316 CE P Cascadable	TMS 1324 CE P Cascadable	TMS 1332 CE P Cascadable
Art. no.	318310	318318	318326	318334	318342
CHARACTERISTICS					
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	passive	passive	passive	passive	passive
Switch commands	13/18 V, 0/22 kHz, DiSEqC 1.0				
FREQUENCY					
Frequency range SAT	950...2400MHz				
Frequency range TER	5...862MHz				
GAIN					
Gain - SAT (with 5 dB slope)	-2...+2 ±2dB	-3...0 ±2dB	-3...0 ±2dB	-5...-2 ±2dB	-5...-2 ±2dB
Gain - TER [47-862 MHz]	-30 ±3dB	-30 ±3dB	-30 ±3dB	-33 ±3dB	-33 ±3dB
LOSS					
Through loss - Trunk SAT	-2 ±2dB	-2 ±2dB	-2 ±2dB	-2...-5 ±2dB	-2...-5 ±2dB
Through loss - Trunk TER	-2 ±2dB	-2 ±2dB	-2 ±2dB	-4 ±2dB	-4 ±2dB
ISOLATION					
Isolation cross polarisation H/V	typ. 30dB				
Isolation SAT to TER	typ. 30dB				
RETURN LOSS					
Return loss SAT inputs	>10dB				
Return loss SAT outputs	>10dB				
Return loss TER inputs	>10dB				
Return loss TER outputs	>10dB				
ELECTRICAL					
Impedance	75Ω				
OPERATIONAL					
Control LEDs	Green LED (Power)				
DC Operating voltage	15VDC				
Max. current to each output (supplied by set top box)	68mA				
Temperature range	-20... 70 °C				
CONNECTORS					
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow				
Connector Type	F-female				
DC input connector	5.5 / 2.1 mm				
Number of inputs	13	13	13	13	13
Number of outputs	13	13	13	13	13
Number of trunk inputs	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER
Number of trunk outputs	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER	3 SAT, 1 TER
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	286mm	286mm	286mm	286mm	286mm
Width (mm)	186mm	185mm	185mm	304mm	304mm
Height (mm)	63mm	63mm	63mm	63mm	63mm
Material	steel metal cabinet				
Packing QTY	1	1	1	1	1
Remarks	Made in Germany				

TRIAX® multiswitch solutions

cascadable, passive TER, for external PSU



Common features - Cascadable switches

- In contrast to standalone multiswitches, a cascadable system can be extended to become a solution covering a very large number of end-users /satellite receivers.
- If your building layout means that users live on different floors, resulting in variable cable lengths from the multiswitch to the end-user apartment, a cascadable

multiswitch installation is the best solution. Cascadable means that every multiswitch has its standard input from the LNBs, but furthermore has outputs, where the LNB signal can be conveyed further down the building floors to additional multiswitches.



TMS 1708 CE P

Art. No. 318410

EAN Number
5702663184107



TMS 1724 CE P

Art. No. 318434

EAN Number
5702663184343



TMS 1712 CE P

Art. No. 318418

EAN Number
5702663184183



TMS 1732 CE P

Art. No. 318442

EAN Number
5702663184428



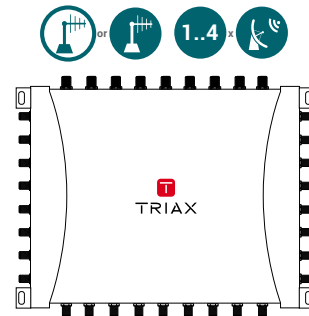
TMS 1716 CE P

Art. No. 318426

EAN Number
5702663184268

TRIAX[®] multiswitch solutions

4 positions



8 12 16 24 28 32

Type:	TMS 1708 CE P Cascadable	TMS 1712 CE P Cascadable	TMS 1716 CE P Cascadable	TMS 1724 CE P Cascadable	TMS 1732 CE P Cascadable
Art. no.	318410	318418	318426	318434	318442
CHARACTERISTICS					
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	passive	passive	passive	passive	passive
Switch commands	13/18 V, 0/22 kHz, DiSEqC 1.0				
FREQUENCY					
Frequency range SAT	950...2400MHz				
Frequency range TER	5...862MHz				
GAIN					
Gain - SAT (with 5 dB slope)	-2...+2 ±2dB	-3...0 ±2dB	-3...0 ±2dB	-5...-2 ±2dB	-5...-2 ±2dB
Gain - TER [47-862 MHz]	-30 ±3dB	-30 ±3dB	-30 ±3dB	-33 ±3dB	-33 ±3dB
LOSS					
Through loss - Trunk SAT	-2 ±2dB	-2 ±2dB	-2 ±2dB	-2...-5 ±2dB	-2...-5 ±2dB
Through loss - Trunk TER	-2 ±2dB	-2 ±2dB	-2 ±2dB	-4 ±2dB	-4 ±2dB
ISOLATION					
Isolation cross polarisation H/V	typ. 30dB				
Isolation SAT to TER	typ. 30dB				
RETURN LOSS					
Return loss SAT inputs	>10dB				
Return loss SAT outputs	>10dB				
Return loss TER inputs	>10dB				
Return loss TER outputs	>10dB				
ELECTRICAL					
Impedance	75Ω				
OPERATIONAL					
Control LEDs	Green LED (Power)				
Max. current to each output (supplied by set top box)	68mA				
Temperature range	-20... 70°C				
CONNECTORS					
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow				
Connector Type	F-female				
DC input connector	5.5 / 2.1 mm				
Number of inputs	17	17	17	17	17
Number of outputs	17	17	17	17	17
Number of trunk inputs	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER
Number of trunk outputs	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER	4 SAT, 1 TER
Subscriber outputs	8	12	16	24	32
MECHANICAL					
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	286mm	286mm	286mm	286mm	286mm
Width (mm)	186mm	185mm	185mm	304mm	304mm
Height (mm)	63mm	63mm	63mm	63mm	63mm
Material	steel metal cabinet				
Packing QTY	1	1	1	1	1

TRIAX® multiswitch solutions

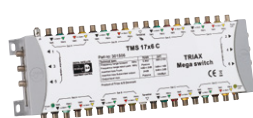
cascadable, passive TER, for external PSU



Common features - Cascadable switches

- In contrast to standalone multiswitches, a cascadable system can be extended to become a solution covering a very large number of end-users /satellite receivers.
- If your building layout means that users live on different floors, resulting in variable cable lengths from the multiswitch to the end-user apartment, a cascadable

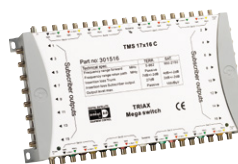
multiswitch installation is the best solution. Cascadable means that every multiswitch has its standard input from the LNBs, but furthermore has outputs, where the LNB signal can be conveyed further down the building floors to additional multiswitches.



**TMS 17x6C - Casc.
16SAT+1TER / 6out**

Art. No. 301506

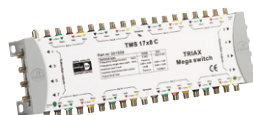
EAN Number
5702663015067



**TMS 17x16C - Casc.
16SAT+1TER / 16out**

Art. No. 301516

EAN Number
5702663015166



**TMS 17x8C - Casc.
16SAT+1TER / 8out**

Art. No. 301508

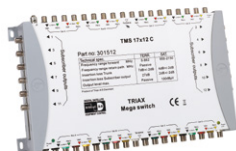
EAN Number
5702663015081



**TMS 17x24 C switch excl
PSU**

Art. No. 301517

EAN Number
5702663015173



**TMS 17x12C - Casc.
16SAT+1TER / 12out**

Art. No. 301512

EAN Number
5702663015128



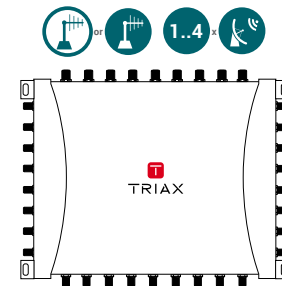
**TMS 17x28 C switch excl
PSU**

Art. No. 301518

EAN Number
5702663015180

TRIAX[®] multiswitch solutions

4 positions



8 12 16 24 28 32

Type:	TMS 17x6C Cascadable	TMS 17x8C Cascadable	TMS 17x12C Cascadable	TMS 17x16C Cascadable	TMS 17x24C Cascadable	TMS 17x28C Cascadable
Art. no.	301506	301508	301512	301516	301517	301518
CHARACTERISTICS						
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Max. output level TER @ 60dB IMD3	passive	passive	passive	passive	passive	passive
Switch commands	13/18 V, 0/22 kHz, DiSEqC 2.0, Toneburst VDC					
FREQUENCY						
Frequency range SAT	950-2150MHz					
Frequency range TER	5 - 862MHz					
GAIN						
Gain - TER [47-862 MHz]	-24.0dB	- 24.0dB	- 27.0dB	- 27.0dB	-33.0dB	-33.0dB
LOSS						
Insertion loss - trunkline SAT	3.0dB	3.0dB	4.0dB	4.0dB		
Insertion loss - trunkline TER	4.0dB	4.0dB	4.0dB	4.0dB		
Through loss SAT	3dB	3dB	4dB	4dB		
Through loss TER	4dB	4dB	4dB	4dB		
ISOLATION						
Cross polarisation H/V	28.0dB	28.0dB	28.0dB	28.0dB	28.0dB	28.0dB
Isolation LNB to LNB	30.0dB	30.0dB	35.0dB	35.0dB		
Isolation out-out SAT	30.0dB	30.0dB	30.0dB	30.0dB		
Isolation out-out TER	25.0dB	25.0dB	25.0dB	25.0dB		
Isolation SAT to TER	30.0dB	30.0dB	30.0dB	30.0dB	30.0dB	30.0dB
Isolation TER to SAT	20.0dB	20.0dB	20.0dB	20.0dB		
RETURN LOSS						
Return loss SAT inputs				12.0dB		
Return loss SAT outputs				12.0dB		
Return loss TER inputs				8.0dB		
Return loss TER outputs				8.0dB		
ELECTRICAL						
Impedance				75Ω		
Power link (for ampl. in line)				Yes		
OPERATIONAL						
Control LEDs				Green LED (Power)		
DC Operating voltage	15.0 ± 0.5VDC	15.0 ± 0.5VDC	15.0 ± 0.5VDC	15.0 ± 0.5VDC		
Temperature range				-20...+55°C		
CONNECTORS						
Colourcoding on inputs				VL=Black, VH=Red, HL=Green, HH=Yellow		
Connector Type				F-female		
DC input connector				F-female		
Number of trunk inputs	16 SAT, 1 TER	16 SAT, 1 TER	16 SAT, 1 TER	16 SAT, 1 TER	16 SAT, 1 TER	16 SAT, 1 TER
Number of trunk outputs	16 SAT, 1 TER	16 SAT, 1 TER	16 SAT, 1 TER	16 SAT, 1 TER	16 SAT, 1 TER	16 SAT, 1 TER
Subscriber outputs	6	8	12	16	24	28
MECHANICAL						
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Depth (mm)	215mm	215mm	215mm	215mm	325mm	325mm
Width (mm)	355mm	355mm	355mm	355mm	355mm	355mm
Height (mm)	55mm	55mm	55mm	55mm	55mm	55mm
Material				steel metal cabinet		
Packing QTY	1	1	1	1	1	1

TRIAX[®] multiswitch solutions

cascadable with termination, passive TER, for external PSU



Common features - Cascadable switches

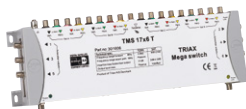
- In contrast to standalone multiswitches, a cascadable system can be extended to become a solution covering a very large number of end-users /satellite receivers.
- If your building layout means that users live on different floors, resulting in variable cable lengths from the multiswitch to the end-user apartment, a cascadable

multiswitch installation is the best solution. Cascadable means that every multiswitch has its standard input from the LNBs, but furthermore has outputs, where the LNB signal can be conveyed further down the building floors to additional multiswitches.

TMS 17x6T Terminated - 16SAT+1TER / 6out

Art. No. 301606

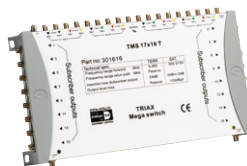
EAN Number
5702663016064



TMS 17x16T Terminated - 16SAT+1TER / 16out

Art. No. 301616

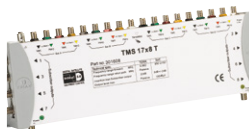
EAN Number
5702663016163



TMS 17x 8T Terminated - 16SAT+1TER / 8out

Art. No. 301608

EAN Number
5702663016088



TMS 17x24T Terminated - 16SAT+1TER / 24 out

Art. No. 301617

EAN Number
5702663016170



TMS 17x12T Terminated - 16SAT+1TER / 12out

Art. No. 301612

EAN Number
5702663016125



TMS 17x28T Terminated - 16SAT+1TER / 28 out

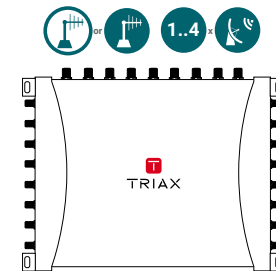
Art. No. 301618

EAN Number
5702663016187



TRIAX[®] multiswitch solutions

4 positions



8 12 16 24 28 32

Type:	TMS 17x6T Terminated	TMS 17x 8T Terminated	TMS 17x12T Terminated	TMS 17x16T Terminated	TMS 17x24T Terminated	TMS 17x28T Terminated
Art. no.	301606	301608	301612	301616	301617	301618
CHARACTERISTICS						
LNB power supply max.	1.3V/DC	1.3V/DC	1.3V/DC	1.3V/DC	1.3V/DC	1.3V/DC
Max. output level SAT @ -35 dB IMD3	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV	100dBμV
Switch commands	13/18 V, 0/22 kHz, DiSEqC 2.0, Toneburst					
FREQUENCY						
Frequency range SAT	950-2150 (aktiv)MHz					
Frequency range TER	5-862 (passiv)MHz					
GAIN						
Gain - SAT (with 5 dB slope)	- 2.0dB	0dB	- 2.0dB	0dB		
Gain - TER [47-862 MHz]	- 21.0dB	- 22.0dB	- 24.0dB	- 24.0dB		
LOSS						
ISOLATION						
Cross polarisation H/V	28.0dB	28.0dB	28.0dB	28.0dB		
Isolation LNB to LNB	35.0dB	35.0dB	35.0dB	35.0dB	35.0dB	35.0dB
Isolation out-out SAT	30.0dB	30.0dB	30.0dB	30.0dB	30.0dB	30.0dB
Isolation out-out TER	25.0dB	25.0dB	25.0dB	25.0dB	25.0dB	25.0dB
Isolation SAT to TER	30.0dB	30.0dB	30.0dB	30.0dB	30.0dB	30.0dB
Isolation TER to SAT	20.0dB	20.0dB	20.0dB	20.0dB	20.0dB	20.0dB
RETURN LOSS						
Return loss SAT inputs	12.0dB	12.0dB	12.0dB	12.0dB	12.0dB	12.0dB
Return loss SAT outputs	12.0dB	12.0dB	12.0dB	12.0dB	12.0dB	12.0dB
Return loss TER inputs	8.0dB	8.0dB	8.0dB	8.0dB	8.0dB	8.0dB
Return loss TER outputs	8.0dB	8.0dB	8.0dB	8.0dB	8.0dB	8.0dB
ELECTRICAL						
Impedance	75Ω					
Power link (for ampl. in line)	Yes					
OPERATIONAL						
Control LEDs	Green for power, Yellow for power link					
DC Operating voltage	15.0 ± 0.5VDC					
Temperature range	0...+55°C					
CONNECTORS						
Colourcoding on inputs	VL=Black, VH=Red, HL=Green, HH=Yellow					
Connector Type	F-female					
Number of inputs	16 SAT, 1 TER	16 SAT, 1 TER	16 SAT, 1 TER	16 SAT, 1 TER	16 SAT, 1 TER	16 SAT, 1 TER
Number of trunk inputs	16 SAT, 1 TER	16 SAT, 1 TER	16 SAT, 1 TER	16 SAT, 1 TER	16 SAT, 1 TER	16 SAT, 1 TER
Subscriber outputs	6	8	12	16	24	28
MECHANICAL						
Depth (mm)	125mm	125mm	215mm	215mm	mm	mm
Width (mm)	355mm	355mm	355mm	355mm	355mm	355mm
Height (mm)	55mm	55mm	55mm	55mm	55mm	55mm
Packing QTY	1	1	1	1	1	1

TRIAX® SCR multiswitch solutions

cascadable single cable distribution



Common features - SCR multiswitches

Our TMU single cable multiswitch family features state-of-the-art switching technology. Output switches between legacy and SCR receivers, with no installer or user intervention. With the growing need for more satellite receivers per apartment, SCR technology has obvious advantages, and TRIAX will help you to fully support this trend.



TMU 983C - SCR
8SAT+1TER / 8out

Art. No. 307352

EAN Number
5702663073524



TMU 1783C SCR
16SAT+1TER / 8out

Art. No. 307360

EAN Number
5702663073609

TRIAX® SCR multiswitch solutions

1–4 positions

Legend:



Passive
Terrestrial
loopthrough



Active
Terrestrial
loopthrough



1 ... 4
satellite
positions



Numbers of subscriber
outputs each for 3 STB
on same cable



Numbers of
subscriber outputs
from the multiswitch

Type:	TMU 983C - SCR	TMU 1783C SCR
Art. no.	307352	307360
CHARACTERISTICS		
Input polarity gain control SAT		
Input polarity gain control TER		
LNB current max.	500mA	500mA
Max. input level - SAT (IMD3 - 35dB)	60...91dBμV	60...91dBμV
Max. input level - TER (IMD3 - 60dB)	90dBμV	90dBμV
Max. output level SAT @ -35 dB IMD3	80dBμV	80dBμV
Max. output level TER @ 60dB IMD3		
Switch commands	13V/18V - 13V/22 kHz - 18V/22 kHz	
FREQUENCY		
Frequency range SAT		
Frequency range TER		
LOSS		
Insertion loss - trunkline SAT	3.0dB	3.0dB
Insertion loss - trunkline TER	5.0dB	5.0dB
Tap loss TER	typ. 24dB	typ. 24dB
ISOLATION		
Cross polarisation H/V		
Isolation out-out SAT		
Isolation out-out TER		
Isolation SAT to TER		
Isolation TER to SAT		
RETURN LOSS		
Return loss SAT inputs	>10dB	>10dB
Return loss SAT outputs		
Return loss TER inputs		
Return loss TER outputs		
ELECTRICAL		
Impedance	75Ω	
OPERATIONAL		
DC Operating voltage	15VDC	
DC Current consumption (typ.)		
LINE power current (max.)	85.0mA	
LINE power DC voltage (max.)		
AC Supply voltage		
Temperature range	-20...50°C	
CONNECTORS		
Colourcoding on inputs	Yes	
Connector Type	F-female	
DC input connector	5.5 / 2.1 mm	5.5 / 2.1 mm
Number of SCR / STB (max.)	24	24
Number of trunk inputs	8 SAT, 1 TER	16 SAT, 1 TER
Number of trunk outputs	9	17
Number of SCR / STB per Output	3	3
Subscriber outputs	8	4
MECHANICAL		
Depth (mm)	122mm	222mm
Width (mm)	222mm	350mm
Height (mm)	51mm	51mm
Packing QTY	1	1

TRIAX® SkyQ multiswitch solutions

cascadable single cable distribution



Designed to support a wide range of new and existing multiswitch installations

- 4 cascadeable LNB inputs from 1 universal Quattro LNB
- 2 Wideband LNB inputs (Vertical, Horizontal) for a 2 satellite installation
- 1 cascadeable terrestrial trunk input
- 1 level adjuster for terrestrial signals 0 – 20dB
- 4, 8 or 12 SCR/Legacy outputs
- 1 DC input (for switch, line and LNB powering)
- 75Ω self-termination switch
- Can be used as a Cascade, Standalone or Terminated Multiswitch
- Each output can support a wide variety of satellite receivers:
 - In legacy mode, the outputs can be used as a standard multiswitch
 - In SCR mode, each output supports up to 16 User Bands with all versions of the single cable

technology. This includes OLT, SCR, CSS, SKY UK, EN50494 and EN50607

- As all outputs are independent, the installation can be a mix of legacy and dSCR connections
- The terrestrial input supports any services that operate between 47 - 790MHz, which includes terrestrial TV, DAB and FM reception
- The trunk outputs allow the cascade of multiple switches to support large installations and have a 75Ω self-termination toggle switch
- Can be used as a Cascade, Standalone or Terminated Multiswitch
- The DC power can be inserted into the switch on the F connector, or at any point in the system. In cascaded systems multiple power supplies might be required



**TdSCR 504 SkyQ
dSCR "add on" multi switch**

Art. No. 318182

EAN Number
5702663181823



**TdSCR 508 SkyQ
dSCR multi switch**

Art. No. 318183

EAN Number
5702663181830



**TdSCR 512 SkyQ
dSCR multi switch**

Art. No. 318184

EAN Number
5702663181847

TRIAX® SkyQ multiswitch solutions

cascadable single cable distribution

Legend:



Passive
Terrestrial
loopthrough



Active
Terrestrial
loopthrough

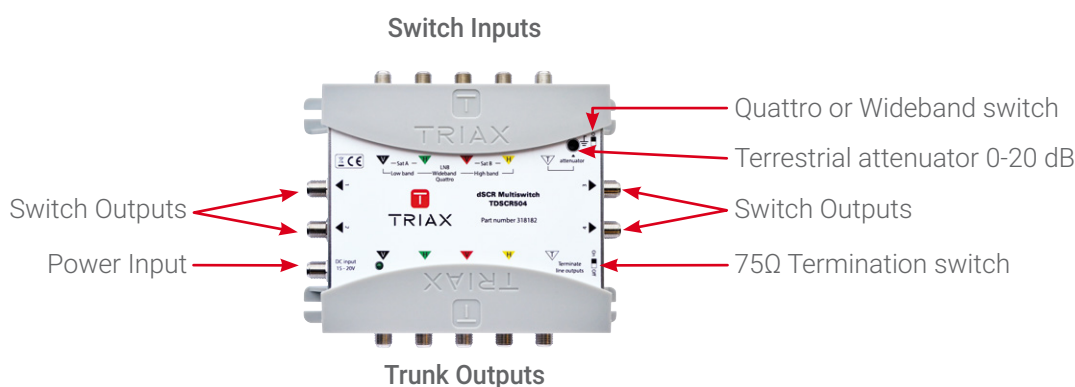


1 ... 4
satellite
positions

TMDS 42 C SkyQ dSCR Add-On
Channel plan of user bands:
Sky UK, Sky Italia, Sky Germany

6 8 12 16 24 28 32

Numbers of
subscriber outputs
from the multiswitch



Type:		TdSCR504	TdSCR508	TdSCR512
Art. no.		318182	318183	318184
Inputs	-	4 SAT (1x quattro or 2 x wideband) + 1 TERR		
User outputs	-	4 Outputs with 16 User bands	8 Outputs with 16 User bands	12 Outputs with 16 User bands
Impedance inputs / outputs	Ohm	75	75	75
FREQUENCY RANGE - SAT				
- dSCR, Legacy	MHz	950 – 2150	950 – 2150	950 – 2150
- Wideband	MHz	290 – 2340	290 – 2340	290 – 2340
Frequency range Terr.	MHz	40-790, active	40-790, active	40-790, active
Input power / dSCR / Legacy	dBm	-38 to -8	-38 to -8	-38 to -8
Output power dSCR / Legacy	dBuV	85 (AGC) (-25 dBm)	85 (AGC) (-25 dBm)	85 (AGC) (-25 dBm)
OPERATIONAL				
Insertion loss Terr.	dB	Typ. 0	Typ. 0	Typ. 0
Attenuation Terr.	dB	0 to 20	0 to 20	0 to 20
Max. Output power Terr.	dBuV	90	90	90
Through loss SAT	dB	Typ. -2.5	Typ. -3	Typ. -4
Through loss Terr.	dB	Typ. -4	Typ. -5	Typ. -6
Isolation H/V	dB	25	25	25
Return loss Inputs / Outputs	dB	10	10	10
User band frequencies	MHz	SKY UK, EN50607, EN50494 (automatic selection)		
LNB supply voltage	V	15 – 20	15 – 20	15 – 20
Max. LNB supply current	mA	1000	1000	1000
Current consumption	mA	< 800 @15V	< 1500 @15V	< 2400 @15V
External PSU	V	Yes (15-20)	Yes (15-20)	Yes (15-20)
MECHANICAL				
Dimension (LxBxH)	mm	166 x 136 x 52	166 x 237 x 52	166 x 335 x 52
Weight	g	520	980	1440
Operating temperature range	°C	-20 to +50	-20 to +50	-20 to +50
DC connector type	-	F-Connector	F-Connector	F-Connector

TRIAX® Accessories

amplifiers for multiswitches



Common features - Trunk launch and line amplifiers

A launch amplifier is the first amplifier in a multiswitch installation, typically near the LNB and dish installation. It is designed to boost your signal to get more mileage in a long cascaded installation. Using a line amplifier, you can compensate for the cable losses further down the trunk lines of your satellite distribution system.

Remember:

Due to the laws of physics there are limits to how many line amplifiers you can add into a multiswitch cascade before your signal quality deteriorates beyond practical use.



SAT Line amplifier

Art. No. 300401

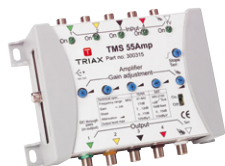
EAN Number
5702663004016



TMS 13 AMP - Lineamplifier

Art. No. 307420

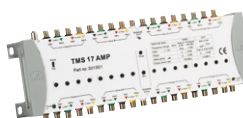
EAN Number
5702663074200



TMS 55 / IF-amplifier

Art. No. 300315

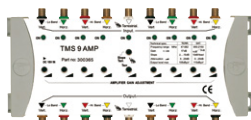
EAN Number
5702663003156



TMS 17 / IF-amplifier

Art. No. 301501

EAN Number
5702663015012



TMS 9 / IF-amplifier

Art. No. 300365

EAN Number
5702663003651

TRIAX® Accessories

amplifiers for multiswitches

Type:	SAT Line amplifier	TMS 55 IF-amplifier	TMS 9 IF-amplifier	TMS 13 IF-amplifier	TMS 17 IF-amplifier
Art. no.	300401	300315	300365	307420	301501
CHARACTERISTICS					
Max. output level SAT @ -35 dB IMD3	100dBμV	110dBμV	110dBμV		110dBμV
Out level TER - 47-862 MHz		105dBμV	105dBμV		105dBμV
FREQUENCY					
Frequency range	47-2300MHz	5...862/ 950 - 2150MHz	5...862/ 950 - 2150MHz	5...862/ 950 - 2150MHz	5...862/ 950 - 2150MHz
GAIN					
Gain	16...20dB				
Gain - SAT (5 dB slope)		20...25dB	14dB	18 to 24 +/-2dB	18....24dB
Gain - TER [47-862 MHz]		17 (± 2)dB	17 (± 2)dB	17+/-2dB	17dB
Gain - FM [47-108 MHz]				8dB	
Gain - DAB [170-230 MHz]				5dB	
Slope control SAT					
Noise figure SAT		< 12.0dB			< 8.0dB
LOSS					
Attenuation - adjustable					0 - 10dB
Adj. attenuator SAT		0-20dB	0-20dB	0 to 10dB	0-10dB
Adj. attenuator TER		0-20dB	0-20dB	0, 6 (switchable)	0-10dB
Equalization SAT		5 (fixed)	5 (fixed)	0 to 15	0, 6 (switchable)
Equalization TER		2-15 (adjustable)	2-15.0	dB	0-15.0 (adjustable)
ISOLATION					
Isolation SAT to SAT					30.0dB
Isolation trunk to trunk					
RETURN LOSS					
Return loss SAT outputs	10.0dB	dB	dB	>=10dB	dB
Return loss SAT	dB	10.0dB	10.0dB	dB	10.0dB
ELECTRICAL					
Impedance	75Ω	75Ω	75Ω	75Ω	75Ω
OPERATIONAL					
LED indicator					
DC Operating voltage		18VDC	18VDC		18VDC
DC Current consumption (typ.)					
LINE power DC voltage (max.)					
Temperature - operating		0...50°C	0...50°C	0...55°C	0...55°C
CONNECTORS					
Number of trunk inputs		4x SAT, 1x TER	8x SAT, 1x TER	12 SAT, 1 TER	16x SAT, 1x TER, power link
Number of trunk outputs	1	4 SAT, 1 TER	8 SAT, 1 TER	12 SAT, 1 TER	16 SAT, 1x TER + power link
Colourcoding on inputs		Yes	Yes	Yes	Yes
Connector Type	F-female	F-female	F-female		F-female
MECHANICAL					
Packing QTY	1	1	1	1	1
Weight (kg)	0.06kg				
Dimensions (H x D x W)	82 x 25 x 27mm				

TRIAX® Accessories

taps & splitters for multiswitches



Common features - Trunk taps and splitters

Taps and splitters expand the TMS 5x series into a cascable system.

Using TMS 55 taps, it is possible to construct large cascable systems. Different tap values allow fine-tuning of available signal levels, and by using splitters you can

balance your distribution system in the best possible way. The MultiTAP allows you to extend any cascade into large systems using a passive TAP technique in the trunk, and 3 active TAPs on each level.



TMM 4+1 Splitter

Art. No. 305320

EAN Number
5702663053205



TMM 5 Splitter

Art. No. 305319

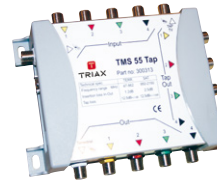
EAN Number
5702663053199



TMS 510 - Splitter

Art. No. 300319

EAN Number
5702663003194



TMS 55-12 TAP

Art. No. 300313

EAN Number
5702663003132



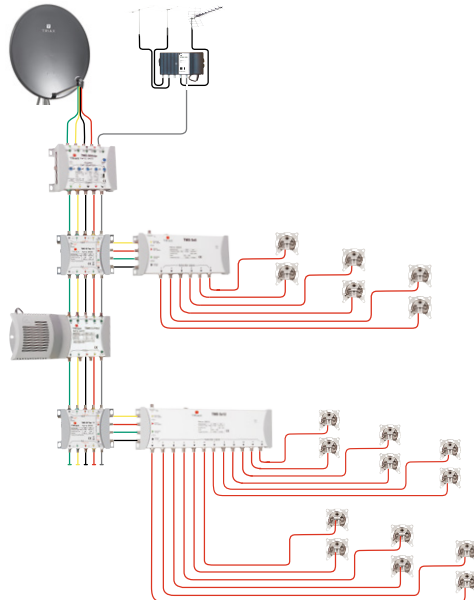
TMS 55-15 TAP

Art. No. 300333

EAN Number
5702663003330

TRIAX® Accessories

taps & splitters for multiswitches



Type:	TMM 4+1 Splitter	TMM 5 Splitter	TMS 510 - Splitter	TMS 55-12 TAP	TMS 55-15 TAP
Art. no.	305320	305319	300319	300313	300333
FREQUENCY					
Frequency range SAT	MHz	MHz	950-2150MHz	950-2150MHz	950-2150MHz
Frequency range	47-2150MHz	47-2150MHz	47-2150MHz	47-2150MHz	47-2150MHz
LOSS					
Through loss - SAT	4.5 ±1dB	4.5 ±1dB	4.0 ±1dB	1.2 ±1dB	1.2 ±1dB
Through loss - TER	4.3 ±1dB	2.5 ±1.5dB	6.0 ±1dB	2.5 ±1.5dB	2.5 ±1.5dB
Tap loss - SAT				12.5dB	15.0dB
Tap loss - TER				12.5dB	15.0dB
ISOLATION					
Isolation trunkline			> 30.0dB	> 30.0dB	> 30.0dB
Isolation out-out SAT	> 20.0dB	> 20.0dB			
Isolation out-out TER	> 22.0dB	> 22.0dB			
RETURN LOSS					
Return loss SAT	13dB	13dB			
Return loss TER	15dB	15dB			
ELECTRICAL					
Impedance	75Ω	75Ω	75Ω	75Ω	75Ω
OPERATIONAL					
DC Passthrough	Yes	Yes			
Temperature - operating	0...55°C	0...55°C	-20...55°C	-20...55°C	0...55°C
CONNECTORS					
Number of trunk inputs	4 x SAT, 1 x TER	4 x SAT, 1 x TER	4 x SAT, 1 x TER	4 x SAT, 1 x TER	4 x SAT, 1 x TER
Number of trunk outputs	2x4 SAT, 2x1 TER	2x4 SAT, 2x1 TER	8 x SAT, 2 x TER	4 x SAT, 1 x TER	4 x SAT, 1 x TER
Colourcoding on inputs	Yes	Yes	Yes	Yes	Yes
Connector Type	F-female	F-female	F-female	F-female	F-female
MECHANICAL					
Packing QTY	1	1	1	1	1
Product Height	190mm	190mm	145mm	145mm	145mm
Product Depth	78mm	78mm	42mm	42mm	42mm
Product Width	105mm	105mm	255mm	119mm	119mm
Weight (kg)	0.49kg	0.49kg			

TRIAX® Accessories

power supplies – terminators & connectors



Common features - Power supplies

Power supplies for your multiswitch installation come in many different varieties in terms of voltage, current supply and connector.

Note that the DC output connector may be different depending on the switch series. Make sure you get the one that fits the multiswitch you are installing.

Choose the right power supply (PSU)

Small cascable setups with 1 or 2 Sat Positions run on the small 2.0A power supply.

A larger cascable system containing multiple Sat Positions and LNBs can be driven by a 3.0A power supply.



TMS 1520-55 PSU - EU
15VDC/2.0A/
5.5mm DC-plug

Art. No. 318150

EAN Number
5702663181502



TMS 1533-55 PSU - EU
15VDC/3.3A/
5.5mm DC-plugg

Art. No. 318152

EAN Number
5702663181526



TMS 1520-55 PSU - BS
15VDC/2.0A/
5.5mm DC-plug

Art. No. 318158

EAN Number
5702663181588



TMS 1533-55 PSU - BS
15VDC/3.3A/
5.5mm DC-plugg

Art. No. 318151

EAN Number
5702663181519



TMS 1520 PSU - RCA
15VDC/2.0A/
RCA DC-plug

Art. No. 318154

EAN Number
5702663181540



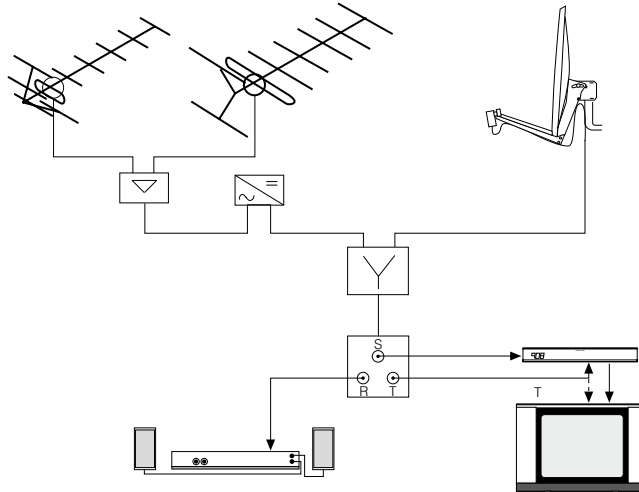
TMS 1533 PSU - RCA
15VDC/3.3A/
RCA DC-plug

Art. No. 318156

EAN Number
5702663181564

TRIAX® Accessories

power supplies – terminators & connectors



In Line DC Block

Art. No. 370706

EAN Number
5702663707061



TMM F_F male Quick connector

Art. No. 370009

EAN Number
5702663700093



RFC 75 - F-male Terminator - 5 pcs. bag

Art. No. 153054

EAN Number
5702661530548



TMM LK - Connecting leads - 25,5 cm

Art. No. 305309

EAN Number
5702663053090



RFC 75 DC - F-male Terminator DC Blocked

Art. No. 350659

EAN Number
5702663506596



TMM RPL - Power lead

Art. No. 305350

EAN Number
5702663053502



TMM 75 ohm - F-male Terminator DC Blocked

Art. No. 305349

EAN Number
5702663053496



TRIAX® DiSEqC switches

for multi satellite reception



Common features - DiSEqC switches

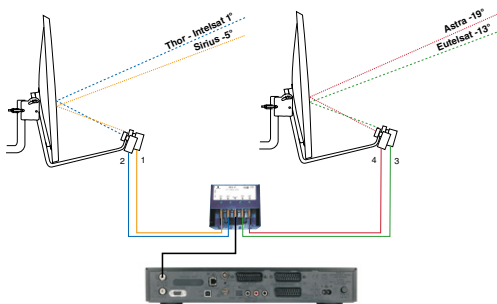
TRIAX DiSEqC switches are used in multi satellite installations for switching between 2 or 4 LNBs, each pointing at different satellites. High isolation ensures problem-free operation in multiple user installations.

Available in diode or relay versions (relay is a mechanical solution for extreme weather conditions), and can be used with single, dual and quad LNBs.

MFD 41D - 4x1 switch

Art. No. 300509

FREQUENCY	
Frequency range SAT	950...2200 MHz
CONNECTORS	
Number of inputs	4
Number of outputs	1



MFD 21D - 2x1 switch

Art. No. 300510

FREQUENCY	
Frequency range SAT	950...2200 MHz
CONNECTORS	
Number of inputs	2
Number of outputs	1



MFD 21R - 2x1 Relay switch

Art. No. 300508

FREQUENCY	
Frequency range SAT	950...2200 MHz
CONNECTORS	
Number of inputs	2
Number of outputs	1



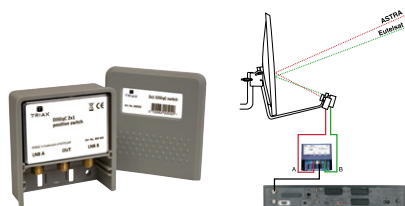
TRIAX[®] DiSEqC switches

for multi satellite reception

DiSEqC 502 - 2x1 switch

Art. No. 300502

FREQUENCY	
Frequency range SAT	900...2150 MHz
CONNECTORS	
Number of inputs	2
Number of outputs	1



DiSEqC 504 - 4x1 switch

Art. No. 300504

FREQUENCY	
Frequency range SAT	900...2150 MHz
CONNECTORS	
Number of inputs	4
Number of outputs	1



Type:	DiSEqC 502 - 2x1 switch	DiSEqC 504 - 4x1 switch	MFD 21D - 2x1 switch	MFD 21R - 2x1 Relay switch	MFD 41D - 4x1 switch
Art. no.	300502	300504	300510	300508	300509
CHARACTERISTICS					
DiSEqC control	DiSEqC 1.0	DiSEqC 1.0	DiSEqC 1.0 and tone burst	DiSEqC 1.0 and tone burst	DiSEqC 1.0 and tone burst
FREQUENCY					
Frequency range SAT	900...2150MHz	900...2150MHz	950...2200MHz	950...2200MHz	950...2200MHz
LOSS					
Through loss	1.5 (max 3.0)dB	1.5 (max 3.0)dB	1.5dB	1dB	2.5dB
ISOLATION					
Isolation input A-B	> 10dB	> 10dB	> 25dB	> 25dB	> 30dB
RETURN LOSS					
Return Loss	> 8dB	> 8dB	> 10dB	> 10dB	> 8dB
ELECTRICAL					
Number of positions	2	4	2	2	4
Switch Type	DiSEqC	DiSEqC	Diodes	Relay	Diodes
OPERATIONAL					
DC Current consumption (typ.)	25mA	25mA	< 30mA	< 30mA	< 30mA
Functions	Position/ tone burst	Position/ option	Position/ option/ band	Position/ option/ band	Position/ option
Temperature range	-30...+60°C	-30...+60°C	-30 ... +60°C	-30 ... +60°C	-30 ... +60°C
MECHANICAL					
Remarks			Hi End DiSEqC switch	Hi End DiSEqC switch	Hi End DiSEqC switch
Height (mm)	60mm	60mm	106mm	106mm	106mm
Width (mm)	60mm	125mm	120mm	120mm	120mm
Depth (mm)	12mm	12mm	43mm	43mm	43mm

TRIAX® Mounting Accessories

for aerials



Triax range of masts and brackets – for perfect installations

Triax has a wide range of mounting brackets. Please refer to the mast calculation section of the technical appendix, and make your installation in accordance with the EN 50083-1 standard, with a restriction of 1650 Nm as maximum on a normal building.

Wall bracket - 3 legs

Art. No. 140045

EAN Number 5702661400452

MECHANICAL

Clearance from wall	350 mm
Height (mm)	200 mm
Tube dimension	Ø30 mm
Material	Steel
Packing QTY	1



Wall bracket - 2 x 2 legs 25-50 cm

Art. No. 140037

EAN Number 5702661400377

MECHANICAL

Clearance from wall	250-500 mm
Height (mm)	40 mm
Tube dimension	Ø 51 max.
Material	5 x 35 mm Electro galv. steel
Packing QTY	1



Window bracket

Art. No. 130016

EAN Number 5702661300165

MECHANICAL

Clearance from wall	600 mm
Material	Aluminium
Packing QTY	1



Wall bracket - 2+3 legs 25-50 cm

Art. No. 140047

EAN Number 5702661400476

MECHANICAL

Clearance from wall	250-500 mm
Height (mm)	40 mm
Tube dimension	Ø 51 max.
Material	5 x 35 mm Electro galv. steel
Packing QTY	1



Window bracket

Art. No. 130018

EAN Number 5702661300189

MECHANICAL

Clearance from wall	780 mm
Material	Aluminium
Packing QTY	1



Wall bracket - 2 legs 7,5 cm

Art. No. 140036

EAN Number 5702661400360

MECHANICAL

Clearance from wall	75 mm
Height (mm)	40 mm
Tube dimension	30-50 mm
Material	Galvanized steel
Packing QTY	1



Wall bracket - 2+3 legs 25-50 cm

Art. No. 140048

EAN Number 5702661400483

MECHANICAL

Clearance from wall	500-750 mm
Height (mm)	40 mm
Tube dimension	Ø 51 max.
Material	5 x 35 mm Electro galv. steel
Packing QTY	1



TRIAx[®] Mounting Accessories

for aerials

Wall bracket - 2 legs 5 cm

Art. No. 131002

EAN Number 5702661310027

MECHANICAL

Clearance from wall	75 mm
Material	Galvanized steel
Tube dimension	30-50mm
Packing QTY	1



Wall bracket - 2 legs 15 cm

Art. No. 131012

EAN Number 5702661310126

MECHANICAL

Clearance from wall	150 mm
Material	Galvanized steel
Tube dimension	30-50mm
Packing QTY	1



Wall bracket - 2 legs 25 cm

Art. No. 131022

EAN Number 5702661310225

MECHANICAL

Clearance from wall	250 mm
Material	Galvanized steel
Tube dimension	30-50mm
Packing QTY	1



Wall bracket - 2 legs 35 cm

Art. No. 131032

EAN Number 5702661310324

MECHANICAL

Clearance from wall	350 mm
Material	Galvanized steel
Tube dimension	30-50mm
Packing QTY	1



Wall bracket - 2 legs 45 cm

Art. No. 131042

EAN Number 5702661310423

MECHANICAL

Clearance from wall	450 mm
Material	Galvanized steel
Tube dimension	30-50mm
Packing QTY	1



Wall bracket - 3 legs 15 cm

Art. No. 131013

EAN Number 5702661310133

MECHANICAL

Clearance from wall	150 mm
Material	Galvanized steel
Tube dimension	30-50mm
Packing QTY	1



Wall bracket - 3 legs 25 cm

Art. No. 131023

EAN Number 5702661310232

MECHANICAL

Clearance from wall	250mm
Material	Galvanized steel
Tube dimension	30-50
Packing QTY	1



Wall bracket - 3 legs 35 cm

Art. No. 131033

EAN Number 5702661310331

MECHANICAL

Clearance from wall	350mm
Material	Galvanized steel
Tube dimension	30-50
Packing QTY	1



Wall bracket - 3 legs 45 cm

Art. No. 131043

EAN Number 5702661310430

MECHANICAL

Clearance from wall	450mm
Material	Galvanized steel
Tube dimension	30-50
Packing QTY	1



Wall bracket - 3 legs 55 cm

Art. No. 131053

EAN Number 5702661310539

MECHANICAL

Clearance from wall	550mm
Material	Galvanized steel
Tube dimension	30-50
Packing QTY	1



Wall bracket - 3 legs 65 cm

Art. No. 131063

EAN Number 5702661310638

MECHANICAL

Clearance from wall	650mm
Material	Galvanized steel
Tube dimension	30-50
Packing QTY	1



Wall bracket - 3 legs 75 cm

Art. No. 131073

EAN Number 5702661310737

MECHANICAL

Clearance from wall	750 mm
Material	Galvanized steel
Tube dimension	30-50
Packing QTY	1



TRIAX® Mounting Accessories

for aerals

GH 25 - Wall bracket - 25.0 cm Art. No. 350600 EAN Number 5702663506008

MECHANICAL	
Clearance from wall	250 mm
Tube dimension	30-60 mm
Material	Galvanized steel
Packing QTY	1



Single angle pipe - short Art. No. 140010 EAN Number 5702661400100

MECHANICAL	
Clearance from wall	mm
Height (mm)	210 mm
Tube dimension	38 / 30-50 mm
Material	Galvanized steel
Packing QTY	1



GF 85 Wall Bracket set Art. No. 140033 EAN Number 5702661400339

MECHANICAL	
Clearance from wall	75 mm
Width (mm)	850 mm
Tube dimension	30-50 mm
Material	Galvanized steel
Packing QTY	1



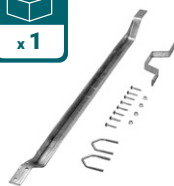
Single angle pipe - long Art. No. 140011 EAN Number 5702661400117

MECHANICAL	
Clearance from wall	mm
Height (mm)	210 mm
Tube dimension	38 / 30-50 mm
Material	Galvanized steel
Packing QTY	1



GF 125 Wall Bracket set Art. No. 140038 EAN Number 5702661400384

MECHANICAL	
Clearance from wall	75 mm
Width (mm)	1250 mm
Tube dimension	30-50 mm
Material	Galvanized steel
Packing QTY	1



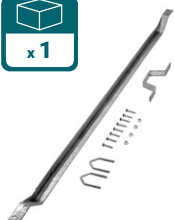
Mast clamp - 30-50 mm straight Art. No. 133107 EAN Number 5702661331077

MECHANICAL	
Material	Galvanized steel
Packing QTY	1



GF 175 Wall Bracket set Art. No. 140039 EAN Number 5702661400391

MECHANICAL	
Clearance from wall	75 mm
Width (mm)	1750 mm
Tube dimension	30-50 mm
Material	Galvanized steel
Packing QTY	1



Mast clamp - 38 mm w. 2 screws Art. No. 140041 EAN Number 5702661400414

MECHANICAL	
Tube dimension	38 mm
Material	Galvanized steel
Packing QTY	1



GF 110-170 Wall Bracket set Art. No. 140040 EAN Number 5702661400407

MECHANICAL	
Clearance from wall	75 mm
Width (mm)	1100-1700 mm
Tube dimension	30-50 mm
Material	Galvanized steel
Packing QTY	1



Mast clamp - 38 mm straight Art. No. 132003 EAN Number 5702661320033

MECHANICAL	
Tube dimension	38 mm
Material	Galvanized steel
Packing QTY	1



U-clamp - for wall mounts Art. No. 140035 EAN Number 5702661400353

MECHANICAL	
Tube dimension	30-50 mm
Material	Elektro galv. steel
Packing QTY	2



Mast clamp - 50 mm straight Art. No. 132006 EAN Number 5702661320064

MECHANICAL	
Tube dimension	50 mm
Material	Galvanized steel
Packing QTY	1



TRIAX® Mounting Accessories

for aerials

Mast clamp - double - 30-50 mm

Art. No. 133245

EAN Number 5702661332456

MECHANICAL

Tube dimension	30-50 mm
Material	Galvanized steel
Packing QTY	1



Clips for index - Steel

Art. No. 133011

EAN Number 5702661330117

MECHANICAL

Height (mm)	5 mm
Tube dimension	30-50 mm
Material	Steel
Packing QTY	1



Roof cover - Black

Art. No. 132203

EAN Number 5702661322037

MECHANICAL

Height (mm)	150 mm
Tube dimension	30-50 mm
Material	Aluminium with polyester
Packing QTY	1



MAKA 15 - Mast Top 32-60mm

Art. No. 140406

EAN Number 5702661404061

MECHANICAL

Tube dimension	30-50 mm
Material	Plastic
Packing QTY	20



DAB 42-2 Roof Cover

Art. No. 140400

EAN Number 5702661404009

MECHANICAL

Height (mm)	100 mm
Tube dimension	42 mm
Material	Rubber
Packing QTY	1



Mast Top - ø38 mm pipe

Art. No. 140213

EAN Number 5702661402135

MECHANICAL

Tube dimension	38 mm
Material	Plastic
Packing QTY	1



DAB 50-2 Roof Cover

Art. No. 140399

EAN Number 5702661403996

MECHANICAL

Height (mm)	100 mm
Tube dimension	50 mm
Material	Rubber
Packing QTY	1



Mast Top - ø50 mm pipe

Art. No. 140215

EAN Number 5702661402159

MECHANICAL

Tube dimension	50 mm
Material	Plastic
Packing QTY	1



DAB 60-1 Roof Cover

Art. No. 140398

EAN Number 5702661403989

MECHANICAL

Height (mm)	100 mm
Tube dimension	60 mm
Material	Plastic
Packing QTY	1



Bracket kit for UFO

Art. No. 133226

EAN Number 5702661332265

MECHANICAL

Material	Steel / Plastic
Packing QTY	1



Index medium - Black

Art. No. 132213

EAN Number 5702661322136

MECHANICAL

Height (mm)	50 mm
Tube dimension	30-50 mm
Material	Rubber
Packing QTY	1



Center bracket for UFO

Art. No. 133225

EAN Number 5702661332258

MECHANICAL

Material	Steel - Polyester Powder Coated
Packing QTY	1



TRIAX® Mounting Accessories

for aerials

ASR Mast 50 mm, length 2.0 m
Art. No. 140384
EAN Number 5702661403842

MECHANICAL	
Length	2000 mm
Tube dimension	50 mm
Material	Galvanized steel
Packing QTY	1



Mast 38 mm, length 6.0 m
Art. No. 140110
EAN Number 5702661401107

MECHANICAL	
Height (mm)	6000 mm
Tube dimension	38 mm
Material	Hot Galv. steel
Packing QTY	1



ASR Mast 50 mm, length 3.0 m
Art. No. 140385
EAN Number 5702661403859

MECHANICAL	
Length	3000 mm
Tube dimension	50 mm
Material	Galvanized steel
Packing QTY	1



Mast 50 mm, length 2.0 m
Art. No. 140028
EAN Number 5702661400285

MECHANICAL	
Height (mm)	2000 mm
Tube dimension	50 mm
Material	Hot Galv. steel
Packing QTY	10



Mast 38 mm, length 1.5 m
Art. No. 140030
EAN Number 5702661400308

MECHANICAL	
Height (mm)	1500 mm
Tube dimension	38 mm
Material	Hot Galv. steel
Packing QTY	10



Mast 50 mm, length 3.0 m
Art. No. 140029
EAN Number 5702661400292

MECHANICAL	
Height (mm)	3000 mm
Tube dimension	50 mm
Material	Hot Galv. steel
Packing QTY	1



Mast 38 mm, length 3.0 m
Art. No. 140031
EAN Number 5702661400315

MECHANICAL	
Height (mm)	3000 mm
Tube dimension	38 mm
Material	Hot Galv. steel
Packing QTY	10



Mast 50 mm, length 4.0 m
Art. No. 140008
EAN Number 5702661400087

MECHANICAL	
Height (mm)	3000 mm
Tube dimension	50 mm
Material	Hot Galv. steel
Packing QTY	1



Mast 38 mm, length 3.0 m
DIN 2394
Art. No. 140113
EAN Number 5702661401138

MECHANICAL	
Height (mm)	3000 mm
Tube dimension	38 mm
Material	Hot Galv. steel
Packing QTY	1



Mast 50 mm, length 6.0 m
Art. No. 140120
EAN Number 5702661401206

MECHANICAL	
Height (mm)	6000 mm
Tube dimension	50 mm
Material	Hot Galv. steel
Packing QTY	1



Mast 38 mm, length 4.0 m
Art. No. 140112
EAN Number 5702661401121

MECHANICAL	
Height (mm)	3000 mm
Tube dimension	38 mm
Material	Hot Galv. steel
Packing QTY	1



TRIAX® Mounting Accessories

for aerials

2-part chimney bracket with band

Art. No. 140032

EAN Number 5702661400322

MECHANICAL

Clearance from wall 50 mm

Tube dimension	30-50 mm
Material	Galvanized steel
Packing QTY	1



Cable guards - Alu 10/12 mm

Art. No. 133053

EAN Number 5702661330537

MECHANICAL

Length 2375 mm

Material Aluminum

Packing QTY 5



Chimney bracket 2 split

Art. No. 130030

EAN Number 5702661300301

MECHANICAL

Clearance from wall 50 mm

Tube dimension	30-50 mm
Material	Galvanized steel
Packing QTY	1



Cable guards - Alu 10/12 mm

Art. No. 133054

EAN Number 5702661330544

MECHANICAL

Height (mm) 5500 mm

Material Aluminum

Packing QTY 5



Single wireset for chimney mounting - spare parts

Art. No. 130001

EAN Number 5702661300011

MECHANICAL

Material Galvanized steel

Packing QTY 1



Expansion bolts

Art. No. 140380

EAN Number 5702661403804

MECHANICAL

Diameter Ø 10 mm

Length 80 mm

Material Electro galv.

Packing QTY 50



Black selfvulcanized tape

Art. No. 153061

EAN Number 5702661530616

MECHANICAL

Height (mm) 18 mm

Material Rubber

Packing QTY 1



Screw 8 x 80

Art. No. 140351

EAN Number 5702661403514

MECHANICAL

Diameter Ø 8 mm

Length 80 mm

Material Electro galv.

Packing QTY 200



Grey mountingtape - l=10m

Art. No. 153060

Frequency range

Height (mm) 10 mm

Material Plastic

Packing QTY 10



Screw 10 x 50

Art. No. 140360

EAN Number 5702661403606

MECHANICAL

Diameter Ø 10 mm

Length 50 mm

Material Electro galv.

Packing QTY 100



TRIAX® Mounting Accessories

for a professional installation



Cable clips white,
25 pcs. - blister
Art. No. 153009
EAN Number 5702661530098



Cable strip - SST 21 black
Art. No. 153065
EAN Number 5702661530654
Packing QTY 100



Cable clips - C 5/20 mm natural -
box of 100 clips
Art. No. 153003
EAN Number 5702661530036



Cable clips - C 7-10 mm white -
box of 100 clips.
Art. No. 153008
EAN Number 5702661530081



Cable clips - C 7-10 mm black -
box of 100 clips.
Art. No. 153080
EAN Number 5702661530807



Cable clips - C 11-13 mm black -
box of 100 clips.
Art. No. 153082
EAN Number 5702661530821



Stapler Arrow T25
Art. No. 153070
EAN Number 5702661530708



Staples T25 - 9/16» (14mm) -
White - box of 1000 pcs.
Art. No. 153069
EAN Number 5702661530692



Staples T25 - 9/16» (14mm) -
Galv. - box of 1000 pcs.
Art. No. 153071
EAN Number 5702661530715



TRIAX[®] Mounting Accessories

for dishes

Brackets for all your needs

TRIAX has all kinds of mounting brackets for dishes, alongside a complete range of accessories to ensure everything is mounted to perfection.

Mast bracket - for TD110 Dish

Art. No. 140051

Packing QTY	2
-------------	---



Triax 2561 stand

Art. No. 127100

EAN Number 5702661271007

MECHANICAL	
Clearance from wall	
Material	Galvanized steel
Tube dimension	Ø 50
Packing QTY	1
Weight net	
Remarks	For mounting dish on ground



Universal roof/wall bracket

Art. No. 300709

EAN Number 5702663007093

MECHANICAL	
Clearance from wall	450 mm
Material	Alu
Tube dimension	Ø 45
Wall plate dimension	mm
Packing QTY	1
Weight net	
Remarks	For mounting dish on roof/wall



Wall bracket type «J»

Art. No. 128050

EAN Number 5702661280504

MECHANICAL	
Clearance from wall	250 mm
Material	Galvanized steel
Tube dimension	Ø 25
Packing QTY	1
Weight net	
Remarks	incl. 2 plastic plugs



Wall Bracket - EXA 192

Art. No. 131092

EAN Number 5702661310928

MECHANICAL	
Clearance from wall	250 mm
Material	Aluminium
Tube dimension	Ø 48
Wall plate dimension	155 x 155 x 3 mm
Packing QTY	10
Weight net	
Remarks	



Wall bracket type «S»

Art. No. 128070

EAN Number 5702661280702

MECHANICAL	
Clearance from wall	250 mm
Material	Galvanized steel
Tube dimension	Ø 25
Packing QTY	1
Weight net	
Remarks	incl. 2 plastic plugs



Wall bracket - EXA 194

Art. No. 131094

EAN Number 5702661310942

MECHANICAL	
Clearance from wall	450 mm
Material	Aluminium
Tube dimension	Ø 48
Wall plate dimension	155 x 155 x 3 mm
Packing QTY	10
Weight net	
Remarks	



Notes

Notes



TRIAX

connecting the future

Contact

triaux.com / [contact](#)

TRIAX is a global supplier of reliable, innovative products and solutions for the reception and distribution of video, audio and data signals.

Our Products are used in homes, businesses and operator networks by broadcasters, satellite, cable and telecom operators.

Our Solutions combine our hardware and software expertise to deliver value to hospitality and related markets, through a partner network of system integrators, large installers and operators.

TRIAX's headquarters, production and R&D base is in Denmark. With 9 international sales subsidiaries we operate in more than 60 distributor countries.

The TRIAX team consists of 300 employees and is owned by Polaris Private Equity.

See www.triaux.com for further info.

Copyright © 2016 TRIAX. All rights reserved. The TRIAX Logo and TRIAX, TRIAX Multimedia are registered trademarks or trademarks of the TRIAX Company or its affiliates.

The Triax portfolio is constantly changing and growing so this catalogue cannot be complete at all times. Please refer to our website and your sales representative for an update. All specification in this catalogue subject to change without further notice.

05-2018A

Art. No. 891407



triaux.com