





# TRIAX Multiswitches

Dependability guaranteed

triax.com



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### connecting the future



## DEPENDABILITY GUARANTEED

Designed in Europe and built to last: a 6-year warranty is our guarantee that TRIAX's core values of reliability and innovation are the foundation of our new multiswitches.



## FLEXIBILITY AT THE FLICK OF A SWITCH

All the functionality you need in a simplified, streamlined range: every new TRIAX multiswitch has an active/passive terrestrial switch for easier stock maintenance and maximum versatility in any installation.



#### CONVENIENCE AT EVERY STEP

Designed with installer convenience in mind: we've packed our new range of TRIAX multiswitches full of features to make installations easier to check, build, expand and maintain.

## Regional experts dedicated to your business

### TRIAX Support and Service

At TRIAX, we're committed to delivering exceptional service before, during and after installation to help you get the very best from our high-quality, reliable products.

TRIAX UK ......+44 1443 778 908 sales@triax.com

TRIAX Middle East......+971 4887 0600 salesmea@triax.com

TRIAX has an extensive network of distribution partners dedicated to providing local support for your business.

Please see www.triax.com/global-network for details.



## At a glance

#### Key features of the TRIAX Multiswitch range

Every aspect of the new TRIAX multiswitch range is designed with installer convenience in mind.

Quality, dependable products that last. Versatile functionality, making it easier to stock and select the right product for the installation.

Features and performance to match the most stringent demands and directives. Compact design and handy accessories to save space in even the tightest technical cabinet, for tidier, easier installations.

It's all backed up with the dedicated project support and service you expect from TRIAX.

#### **Excellent performance**

- Low insertion loss
- High isolation
- Low power consumption

#### Reduced footprint

- Tidier, more compact installations in even the tightest of spaces
- Optional spacers available

#### Flexible range

- Easier to select the right product
- Fewer products to stock
- Quad and Quattro LNB compatible

#### **RED** compliant

High quality, reliable performance

#### **CATV** networks

 Can carry CATV network signals using return-channel applications (MKII cascade multiswitches)













#### Pro features

Fine tune your network

- Make all the adjustments you need, with our Standalone Pro models
- Can carry CATV network signals using return-channel applications

#### **UK** features

Regional experts dedicated to your business

All our multiswitches are also available in the UK
with local power supplies, earth bars and up-to-date
regulatory markings – look out for the UK-specific
product numbers in the technical specifications.

## connecting the future

## Dependable, flexible, convenient

#### **Equidistant F-connectors**

Easily expand your network: all multiswitches fit together like building blocks, with enough space to comfortably screw on connectors

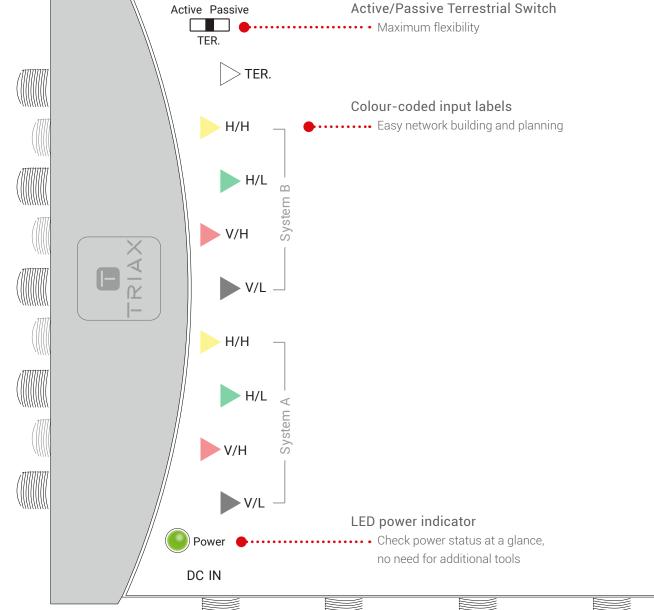
#### **ESD Protection**

Safety on all inputs & subscriber outputs

Active Passive Active/Passive Terrestrial Switch

TER.

TER.



Flexible power injection -----

Connect to DC wherever is most practical in your cascade network: all multiswitches can bear 3 amps per local injection and 2 amps per sat line



## Standalone 5

### 6, 8, 12, 16, 24, 32 outputs

Standalone multiswitch range for 1 Satellite position with 5 inputs and 6 to 32 outputs, suitable for distributing satellite and terrestrial signals in small and medium sized systems.

The TMS 5 S series offers excellent performance and flexibility, with a compact design for installations even in confined spaces.



	Feature (MKII)	EU version	TMS/CKR 5x6 S	TMS/CKR 5x8 S	TMS/CKR 5x12 S	TMS/CKR 5x16 S	TMS/CKR 5x24 S	TMS/CKR 5x32 S	
	Art. no.		318601	318602	318603	318604	318605	318606	
	Frequency range TER	Active / Passive (via switch)			47-694 MHz	/ 5-862 MHz			
	Frequency range SAT				950-22	00 MHz			
	Supported LNB				QUAD/Q	UATTRO			
	Inputs SAT + TER (F-type cor	nnectors)			į	5			
	Subscriber Outputs (F-type c	onnectors)	6	8	12	16	24	32	
	TER Subscriber loss	TER active / TER passive	0 ± 2dB /	23 ± 2dB	0 ± 2dB /	27 ± 2dB	0 ± 2dB /	33 ± 2dB	
	SAT Subscriber gain with 5dE	3 slope		-2+3	3 ± 2dB		-4+1	± 2dB	
	Isolation	SAT to TER Cross polarisation H/V	30dB 30dB						
		Tap-Tap TER / Tap-Tap SAT			25dB ,	/ 30dB			
	Max. input level	TER / SAT		90dBμV ,	/ 97dBµV		90dBµV ,	/ 99dBµV	
	Max. output level	TER active (IMA <sup>3</sup> 60dB) SAT (IMA <sup>3</sup> 35dB)	90dBμV 100 dBμV						
	Return loss	TER/SAT (input) TER/SAT (Tap output)			> 1( > 1)				
	Noise figure	TER active			≤7	dB			
	Switching commands		DiSEqC 1.0 / 2.0, 13V, 18V, 13V22KHz, 18V22KHz						
	Power consumption	Multiswitch power consumption	3W Max.(T		4W Max.(T 2W Max.(T)	,			
		Max. current to LNB			1	A			
		Max. current from receiver	< 50mA						
	Power supply voltage	180264 VAC							
	Operating temperature	-20+55°C							
Dimensions (W x L x D)			250 x 140 x 65mm 330 x 140 x 65mm					0 x 65mm	
	Weight		725g	735g	785g	800g	1040g	1070g	
	Feature	UK version	-	TMS/CKR 5x8 S BS	TMS/CKR 5x12 S BS	TMS/CKR 5x16 S BS	TMS/CKR 5x24 S BS	TMS/CKR 5x32 S BS	
	Art. no.			318621	318622	318623	318624	318625	

## Standalone 9

### 8, 12, 16, 24, 32 outputs

Standalone multiswitch range for 2 Satellite positions with 9 inputs and 8 to 32 outputs, suitable for distributing satellite and terrestrial signals in small and medium sized systems.

The TMS 9 S series offers excellent performance and flexibility, with a compact design for installations even in confined spaces.



Feature (MKII)		TMS/CKR 9x8 S	TMS/CKR 9x12 S	TMS/CKR 9x16 S	TMS/CKR 9x24 S	TMS/CKR 9x32 S	
Art. no.		318702	318703	318704	318705	318706	
Frequency range TER	Active / Passive (via switch)		47-	-694 MHz / 5-862 N	1Hz		
Frequency range SAT				950-2200 MHz			
Inputs SAT + TER (F-type	connectors)			9			
Subscriber Outputs (F-ty	pe connectors)	8	12	16	24	32	
TER Subscriber loss	TER active / TER passive	0 ± 2dB / 23 ± 2dB	0 ± 2dB /	27 ± 2dB	0 ± 2dB /	33 ± 2dB	
SAT Subscriber gain with	5dB slope	0+5 ± 2dB	-3+2	± 2dB	-4+1	± 2dB	
Isolation	SAT to TER / Cross polarisation H/V			30dB / 30dB			
	Tap-Tap TER / Tap-Tap SAT			25dB / 30dB			
Max. input level	TER / SAT	90dBμV / 95dBμV				/ 99dBµV	
Max. output level	TER active (IMA <sup>3</sup> 60dB) SAT (IMA <sup>3</sup> 35dB)	90dBμV 100 dBμV					
Return loss	TER/SAT (input) TER/SAT (Tap output)	> 10dB > 10dB					
Noise figure	TER active			≤7dB			
Switching commands		DiSEqC 1.0 / 2.0, 13V, 18V, 13V22KHz, 18V22KHz					
Power consumption	Multiswitch power consumption	3.5W Max.(TER Active), 2W Max.(TER Passive)					
	Max. current to LNB			1A			
Max. current from receiver		< 50mA					
Power supply voltage		180264 VAC					
Operating temperature		-20+55°C					
Dimensions (W x L x D)		270 x 140 x 65mm 370 x 140 x 65mm			0 x 65mm		
Weight		805g	840g	855g	1140g	1170g	



## Standalone 5 Pro

### 8, 12, 16, 24, 32 outputs

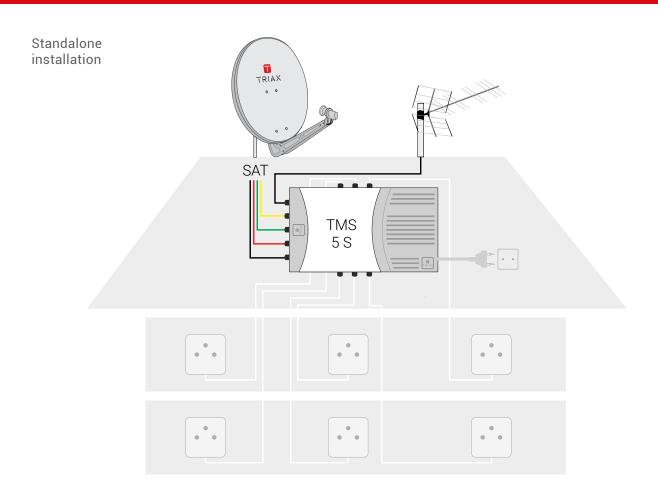
Standalone multiswitch range for 1 Satellite position with 5 inputs and 8 to 32 outputs, suitable for distributing satellite and terrestrial signals in small and medium sized systems.

The TMS 5 S PRO series offers excellent performance, with the ability to adjust input and output levels, and a compact design for installations even in confined spaces.



Feature		TMS/CKR PRO 5x8 S	TMS/CKR PRO 5x12 S	TMS/CKR PRO 5x16 S	TMS/CKR PRO 5x24 S	TMS/CKR PRO 5x32 S	
Art. no.		318608	318609	318610	318611	318612	
Frequency range TER	Active / Passive (via switch)		47-	-694 MHz / 5-862 N	1Hz		
Frequency range SAT				950-2200 MHz			
Supported LNB				QUAD/QUATTRO			
Inputs SAT + TER (F-type	e connectors)			5			
Subscriber Outputs (F-ty	rpe connectors)	8	12	16	24	32	
TER Subscriber loss	TER active / TER passive	0 ± 2dB /25 ± 2dB	0 ± 2dB /	27 ± 2dB	0 ± 2dB /	33 ± 2dB	
SAT Subscriber gain with	1 5dB slope			0+5 ± 2dB			
Isolation	SAT to TER Cross polarisation H/V			30dB / 30dB			
	Tap-Tap TER / Tap-Tap SAT	25dB / 30dB					
Max. input level	TER / SAT	90dBμV / 97dBμV					
Input level control	TER /SAT	0-15dB (TER active) / 0-10dB					
Max. output level	TER active (IMA <sup>3</sup> 60dB) SAT (IMA <sup>3</sup> 35dB)	90dBμV 100 dBμV					
Output level control	via switch		-		0dB / -6d	B / -12dB	
Return loss	TER/SAT (input) TER/SAT (Tap output)			> 10dB > 10dB			
Noise figure	TER active			≤7dB			
Switching commands			DiSEqC 1.0 / 2.	0, 13V, 18V, 13V22k	KHz, 18V22KHz		
Power consumption	Multiswitch power consumption	4W Max.(TER Active) 3W Max.(TER Passive)	4.5W Max.( 3.5W Max.(T	· ·	5W Max.(T 4W Max.(T	'	
Max. current to LNB		1A					
	< 50mA						
Power supply voltage		180264 VAC					
Operating temperature		-20+55°C					
Dimensions (W x L x D)		285 x 225 x 60mm 385 x 225 x 60mm			x 60mm		
Weight		835g	885g	900g	1115g	1140g	

## Application Example



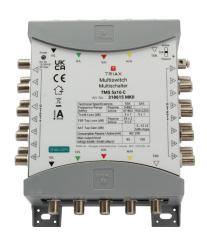






### 8, 12, 16, 24, 32 outputs

Cascade multiswitch range for 1 Satellite position with 5 inputs and 5 trunk outputs, suitable for distributing satellite and terrestrial signals in small to large sized systems. Available with 8 to 32 subscriber outputs and powered by the TMS PSU external power supply either directly or via the SAT trunk lines. The TMS 5 C series offers excellent performance and flexibility, with a compact design for installations even in confined spaces.



Feature (MKII)	EU version	TMS 5x8 C	TMS 5x12 C	TMS 5x16 C	TMS 5x24 C	TMS 5x32 C		
Art. no.		318613	318614	318615	318616	318617		
Frequency range TER	Active / Passive (via switch)		47-	-862 MHz / 5-862 N	1Hz			
Frequency range SAT				950-2200 MHz				
Inputs SAT + TER (F-type	e connectors)			5				
Subscriber Outputs (F-ty	pe connectors)	8	12	16	24	32		
Trunk Loss	TER / SAT	3 ± 1dB / 4 ± 1dB	4 ± 1dB ,	/ 5 ± 1dB	5 ± 1dB ,	/7±1dB		
TER Tap loss	TER active / TER passive	0 ± 2dB / 25 ± 2dB	0 ± 2dB /	29 ± 2dB	0 ± 2dB /	33 ± 2dB		
SAT Tap gain with 5dB s	lope	-2+3 ± 2dB	-3+2	± 2dB	-4+1	± 2dB		
Isolation Trunk-Trunk	TER to SAT / SAT to TER / SAT to SAT			> 30dB				
Isolation Tap	TER to SAT / SAT to TER			> 25dB / >30dB				
	Cross polarisation H/V			30dB				
	Tap-Tap TER / Tap-Tap SAT			25dB / 30dB				
Max. input level	TER / SAT	90dBμV / 97dBμV	90dBµV ,	/ 98dBµV	90dBµV ,	/ 99dBµV		
Max. output level	TER Active (IMA <sup>3</sup> 60dB) SAT (IMA <sup>3</sup> 35dB)			90dBµV 100dBµV				
Return loss TER/SAT	Trunk input / Trunk output			> 10dB				
	Tap output			10dB				
Switching commands		DiSEqC 1.0 / 2.0, 13V, 18V, 13V22KHz, 18V22KHz						
Power consumption	Multiswitch power consumption @18V	30mA TER passive 200mA TER active						
	Max. current to LNB			ЗА				
	Max. current from receiver			< 50mA				
Multiswitch operating vo	ltage	15-20V DC						
DC support on trunk line		on all 4 polarities VL/VH/HL/HH - TER no DC pass						
Trunk max. current pass	per line	2A						
DC injection max. current		3A						
Operating temperature			-20+55°C					
Dimensions (W x L x D)			175 x 255 x 65mm 275 x 255 x		5 x 65mm			
Weight		485g 535g 550g		550g	765g	815g		
Feature	UK version	TMS 5x8 C EB	TMS 5x12 C EB	TMS 5x16 C EB	TMS 5x24 C EB	TMS 5x32 C EB		
Art. no.		318626	318627	318628	318629	318630		

### 8, 12, 16, 24, 32 outputs

Cascade multiswitch range for 2 Satellite positions with 9 inputs and 9 trunk outputs, suitable for distributing satellite and terrestrial signals in small to large sized systems. Available with 8 to 32 subscriber outputs and powered by the TMS PSU external power supply either directly or via the SAT trunk lines. The TMS 9 C series offers excellent performance and flexibility, with a compact design for installations even in confined spaces.

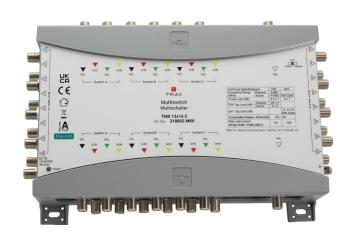


Feature (MKII)		TMS 9x8 C	TMS 9x12 C	TMS 9x16 C	TMS 9x24 C	TMS 9x32 C		
Art. no.		318713	318714	318715	318716	318717		
Frequency range TER	Active / Passive (via switch)		47-	-862 MHz / 5-862 N	1Hz			
Frequency range SAT				950-2200 MHz				
Inputs SAT + TER (F-typ	pe connectors)			9				
Subscriber Outputs (F-t	ype connectors)	8	12	16	24	32		
Trunk Loss	TER / SAT	4 ± 1dB / 4 ± 1dB	4.5 ± 1dB	/ 4 ± 1dB	5 ± 1dB	/ 6 ± 1dB		
TER Tap loss	TER active / TER passive	0 ± 2dB / 25 ± 2dB	0 ± 2dB /	27 ± 2dB	0 ± 2dB /	33 ± 2dB		
SAT Tap gain with 5dB s	slope	-2+3 ± 2dB	-3+2	± 2dB	-4+1	± 2dB		
Isolation Trunk-Trunk	TER to SAT / SAT to TER / SAT to SAT			> 30dB				
Isolation Tap	TER to SAT / SAT to TER			> 25dB / >30dB				
	Cross polarisation H/V			30dB				
	Tap-Tap TER / Tap-Tap SAT			> 30dB				
Max. input level	TER / SAT	90dBμV / 97dBμV 90dBμV / 98dBμV 90dBμV / 99dBμV						
Max. output level	TER Active (IMA <sup>3</sup> 60dB) SAT (IMA <sup>3</sup> 35dB)	90dBμV 100dBμV						
Return loss TER/SAT	Trunk input / Trunk output	> 10dB						
	Tap output			10dB				
Switching commands			DiSEqC 1.0 / 2.0, 13V, 18V, 13V22KHz, 18V22KHz					
Power consumption	Multiswitch power consumption @18V	20mA TER passive / 75mA TER active						
	Max. current to LNB			3A				
	Max. current from receiver			< 50mA				
Multiswitch operating voltage		15-20V DC						
DC support on trunk line		on all 4 polarities VL/VH/HL/HH - TER no DC pass						
Trunk max. current pass per line		2A						
DC injection max. current		3A						
Operating temperature		-20+55°C						
Dimensions (W x L x D)		175 x 255 x 65mm 275 x 255 x 65mm			5 x 65mm			
Weight		585g	635g	650g	910g	960g		



### 8, 12, 16, 24, 32 outputs

Cascade multiswitch range for 3 Satellite positions with 13 inputs and 13 trunk outputs, suitable for distributing satellite and terrestrial signals in small to large sized systems. Available with 8 to 32 subscriber outputs and powered by the TMS PSU external power supply either directly or via the SAT trunk lines. The TMS 13 C series offers excellent performance and flexibility, with a compact design for installations even in confined spaces.



Art. no. 318801 318802 318803 318804	318805					
Frequency range TER   Active / Passive (via switch) 47-862 MHz / 5-862 MHz						
Frequency range SAT 950-2200 MHz						
Inputs SAT + TER (F-type connectors) 13						
Subscriber Outputs (F-type connectors) 8 12 16 24	32					
Trunk Loss         TER / SAT         4 ± 1dB / 4 ± 1dB         4.5 ± 1dB / 4 ± 1dB         5 ± 1dB /	6 ± 1dB					
TER Tap loss TER active / TER passive $2 \pm 2 dB / 25 \pm 2 dB$ $0 \pm 2 dB / 29 \pm 2 dB$ $0 \pm 2 dB / 3$	33 ± 2dB					
SAT Tap gain with 5dB slope -2+3 ± 2dB -3+2 ± 2dB -4+1 :	± 2dB					
Isolation Trunk-Trunk  TER to SAT / SAT to TER / SAT to SAT  > 30dB						
Isolation Tap TER to SAT / SAT to TER > 25dB / >30dB						
Cross polarisation H/V 30dB						
Tap-Tap TER / Tap-Tap SAT 25 / 30dB						
Max. input levelTER / SAT90dBμV / 97dBμV90dBμV / 98dBμV90dBμV / 98dBμV	99dBµV					
Max. output level TER Active (IMA³ 60dB) 90dBμV SAT (IMA³ 35dB) 100dBμV						
Return loss TER/SAT Trunk input / Trunk output > 10dB	> 10dB					
Tap output 10dB	1000					
Switching commands DiSEqC 1.0 / 2.0, 13V, 18V, 13V22KHz, 18V22KHz						
Power consumption Multiswitch power 30mA TER passive 30mA TER passive 30mA TER passive 200mA TER consumption @18V 150mA TER active 180mA TER active 200mA TER 200mA TE						
Max. current to LNB 3A						
Max. current from receiver < 50mA	< 50mA					
Multiswitch operating voltage 15-20V DC	15-20V DC					
DC support on trunk line on all 4 polarities VL/VH/HL/HH - TER no DC pass	on all 4 polarities VL/VH/HL/HH - TER no DC pass					
Trunk max. current pass per line 2A	2A					
DC injection max. current 3A	3A					
Operating temperature -20+55°C	-20+55°C					
Dimensions (W x L x D)         175 x 255 x 65mm         275 x 255	x 65mm					
Weight         920g         990g         1005g         1420g	1470g					

### 8, 12, 16, 24, 32 outputs

Cascade multiswitch range for 4 Satellite positions with 17 inputs and 17 trunk outputs, suitable for distributing satellite and terrestrial signals in small to large sized systems. Available with 8 to 32 subscriber outputs and powered by the TMS PSU external power supply either directly or via the SAT trunk lines. The TMS 17 C series offers excellent performance and flexibility, with a compact design for installations even in confined spaces.



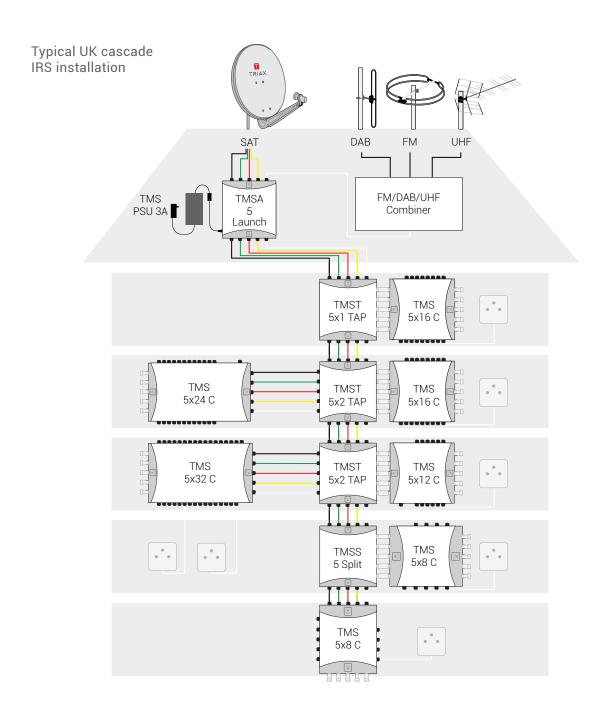
Feature (MKII)		TMS 17x8 C	TMS 17x12 C	TMS 17x16 C	TMS 17x24 C	TMS 17x32 C	
Art. no.		318901	318902	318903	318904	318905	
Frequency range TER	Active / Passive (via switch)		47-	-862 MHz / 5-862 N	1Hz		
Frequency range SAT				950-2200 MHz			
Inputs SAT + TER (F-type	e connectors)			17			
Subscriber Outputs (F-ty	/pe connectors)	8	12	16	24	32	
Trunk Loss	TER / SAT	4 ± 1dB / 4 ± 1dB	4.5 ± 1dB	/ 4 ± 1dB	5 ± 1dB ,	/ 6 ± 1dB	
TER Tap loss	TER active / TER passive	2 ± 2dB / 25 ± 2dB	0 ± 2dB /	29 ± 2dB	0 ± 2dB /	33 ± 2dB	
SAT Tap gain with 5dB s	lope	-2+3 ± 2dB	-3+2	± 2dB	-4+1	± 2dB	
Isolation Trunk-Trunk	TER to SAT / SAT to TER / SAT to SAT			> 30dB			
Isolation Tap	TER to SAT / SAT to TER			> 25dB / >30dB			
	Cross polarisation H/V			30dB			
	Tap-Tap TER / Tap-Tap SAT			25 / 30dB			
Max. input level	TER / SAT	90dBμV / 97dBμV	90dBµV ,	/ 98dBµV	90dBµV ,	/ 99dBµV	
Max. output level	TER Active (IMA <sup>3</sup> 60dB) SAT (IMA <sup>3</sup> 35dB)			90dBµV 100dBµV			
Return loss TER/SAT	Trunk input / Trunk output			> 10dB			
	Tap output		10dB				
Switching commands		DiSEqC 1.0 / 2.0, 13V, 18V, 13V22KHz, 18V22KHz					
Power consumption	Multiswitch power consumption @18V	30mA TER passive 150mA TER active	30mA TE 180mA T	R passive ER active	30mA TE 200mA T	R passive ER active	
	Max. current to LNB			3A			
	Max. current from receiver	< 50mA					
Multiswitch operating vo	oltage	15-20V DC					
DC support on trunk line		on all 4 polarities VL/VH/HL/HH - TER no DC pass					
Trunk max. current pass per line		2A					
DC injection max. current		3A					
Operating temperature		-20+55°C					
Dimensions (W x L x D)			175 x 255 x 65mm		275 x 255	5 x 65mm	
Weight	Weight		990g	1005g	1420g	1470g	

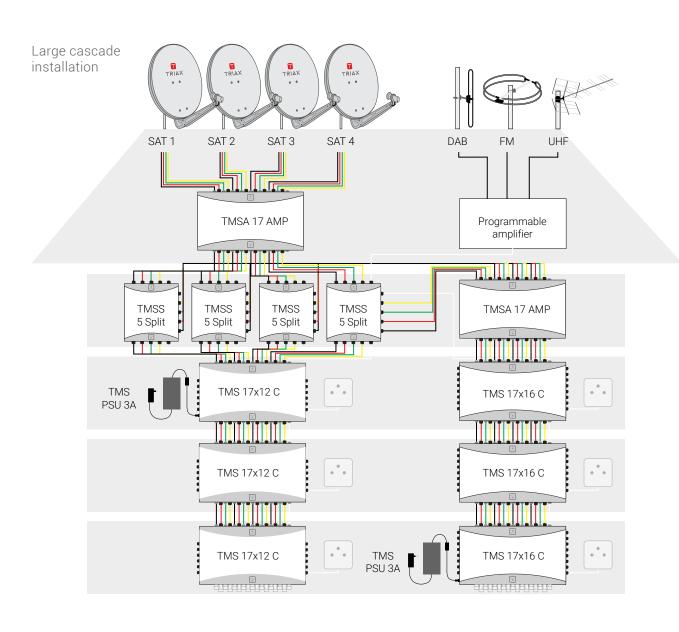


## **Application examples**

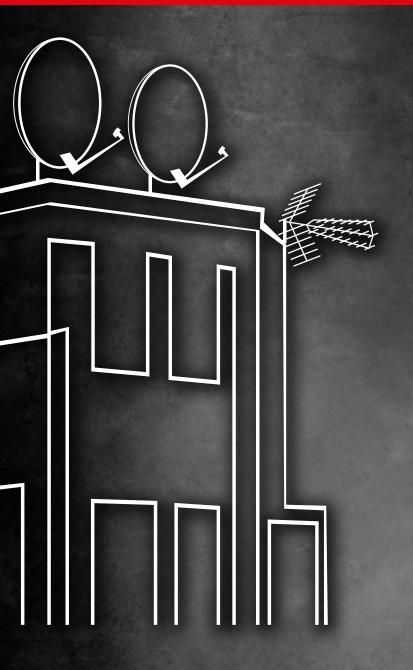
### Regional experts dedicated to your business

The following schematics from our regional support teams showcase how a TRIAX Multiswitch installation could be configured in various situations.









- AERIALS
- DISHES
- CABLES
- MULTISWITCHES
- AMPLIFIERS
- TAPS
- SPLITTERS
- OUTLETS
- ... and much more

## From rooftop to outlet

TRIAX offers a complete range of equipment and accessories for every stage of your installation.

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

Browse the full range at triax.com

### **PSU**

Our three Power Supply Units (1.2, 2 and 3A) deliver 18V DC to your cascade system.

Power can be inserted into any TRIAX cascade Multiswitch, Tap, Splitter or Amplifier.

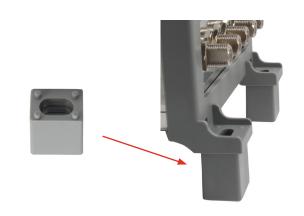
Please consider the total power consumption of your cascade system when selecting which power supply to use.



## Spacer

As our products may be installed in tight spaces, optional spacers are available to run the cable under the product.

The installation is therefore tidier and more compact.



Feature	PSU - EU version	TMS PSU 1.2A	TMS PSU 2A	TMS PSU 3A		
Art. no.		318162	318163	318164		
Input Voltage			100-240V AC 50/60Hz			
Output Voltage			18V DC			
Max. Output current		1.2A	2.0A	3.0A		
Output power		21.6W	36W	54W		
Mains cord length		Plug-top	1800mm	1800mm		
DC lead length (F-connector)		1800 ± 50mm	1830 ± 50mm			
Protections		Short circuit, overload (current & voltage)				
Operating temperature		-20+55°C				
Dimensions (L x W x H) - EU v	rersion	81 x 44 x 70mm	94 x 52 x 35mm	122 x 55 x 35mm		
Weight		135g	158g	205g		
Accessories		=	Power cord, PSU holde	r + 4 screws & wall plug		
Feature	PSU - UK version	TMS PSU 1.2A BS	TMS PSU 2A BS	TMS PSU 3A BS		
Art. no.		318165	318166	318167		
Dimensions (L x W x H) - UK v	version	81 x 49.5 x 63.4mm	94.3 x 50.5 x 32.6mm	122 x 55 x 35mm		

Feature	TMS SPACER
Art. no.	318191
Pieces in each box	40



## **Amplifiers**

Our wide range of amplifiers will compensate for the cable loss in your designed multiswitch systems.

TMSA 5 amplifiers are available as Launch and Line Amplifiers and can be powered directly via their DC input port, or line powered via all Sat lines. UK variants are equipped with earth bars, have a different SAT signals order (MKII version).

TMSA 9, 13 and 17 Line Amplifiers can be powered directly via their DC input, or line powered via any of their Sat ports.



Feature	Amplifier - EU version	TMSA 5 LINE AMP	TMSA 5 LAUNCH AMP	TMSA 9 LINE AMP	TMSA 13 LINE AMP	TMSA 17 LINE AMP	
Art. no.		318640	318641	318727	318815	318915	
Frequency range	TER passive			5-862 MHz			
	TER active		47-694 MHz /	47-862 MHz via 2 p	osition switch		
	SAT			950-2200 MHz			
Inputs SAT + TER (F-ty	pe connectors)	Į	5	9	13	17	
Outputs SAT + TER (F-	type connectors)	Į.	5	9	13	17	
Gain	TER active	20 ± 2dB	30 ± 2dB	17 ± 2dB	15 ±	2dB	
	SAT	20 ± 2dB	30 ± 2dB	1823dB ± 2dB 5dB slope		OdB slope or IB @6dB slope	
Insertion loss	TER passive			5dB			
Gain control	TER active		015dB		01	0dB	
	SAT		015dB		01	0dB	
Slope control	TER active	010dB	015dB	015dB	010dB		
	SAT	5 ± 2dB fixed slope	010dB	5 ± 2dB fixed slope	0dB or 6dB	fixed slope	
Isolation TER-SAT	>30dB						
Return loss TER / SAT		>10dB					
Max. Output level	TER Active (IMA <sup>3</sup> 60dB) SAT (IMA <sup>3</sup> 35dB)	105dBμV 112dBμV	112dBμV 118dBμV	105dBμV 110dBμV			
Current consumption (	@18V DC	230mA max.	500mA max.	450mA max.	600mA max.	800mA max.	
DC to LNB / Max. curre	ent to LNB	18V (15-20V) / 3A					
External DC injection	DC IN (F) to SAT IN or SAT OUT	YES switchable					
	DC IN (F) to TER	No					
External DC injection max. current		3A					
Max. current pass per SAT line		2A					
Operating temperature		-20+55°C					
Dimensions (W x L x D)			175 x 140 x 65mm		175 x 255	5 x 65mm	
Weight		550g	560g	590g	1040g	1085g	
Feature	Amplifier - UK version	TMSA 5 LINE AMP EB	TMSA 5 LAUNCH AMP EB	-	-	-	
Art. no.		318645	318646	-	-	-	

## Taps & Splitters

Taps & splitters are devices designed to be used in cascade systems to split the received signals to several trunk lines.

Tap attenuation can be selected using a rotary attenuator to adjust the tap output to the required signal level. Taps and Splitters are supplied with earth bars.

Power can be inserted on their DC input, or line powered via any of their Sat ports.



Art. no.   318644   318642   318643	Feature	Splitter & Taps	TMSS 5 SPLIT EB	TMST 5x1 TAP EB	TMST 5x2 TAP EB				
Prequency range SAT	Art. no.		318644	318642	318643				
Inputs SAT + TER (F-type connectors)   5	Frequency range TER			5-862 MHz					
Outputs SAT + TER (F-type connectors)         Splitter outputs         2 x 5 (8 SAT + 2 TER)         -           Insertion loss         TER         4 ± 1dB         3 ± 1dB         5 ± 1dB           Insertion loss         TER         4 ± 1dB         3 ± 1dB         5 ± 1dB           Tap loss         TER / SAT         -         Rotary switch 12 30 ± 2dB (12, 15, 20, 25, 30dB)           Isolation         > 30dB           Return loss         > 10dB           DC pass         SAT Inputs to SAT outputs, Bi-directional TER no DC pass         SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass           External DC injection max. current         3A           Max. current pass per line         2A           Current consumption @18V DC         10mA         40mA         60mA           Operating temperature         -20+55°C           Dimensions (W x L x D)         200 x 140 x 65mm           Weight         595g         605g         630g           Feature         Splitter & Taps UK version         TMST 5x1 TAP EB         TMST 5x2 TAP EB	Frequency range SAT			950-2200 MHz					
CF-type connectors	Inputs SAT + TER (F-type	connectors)		5					
Tap ouputs		Splitter outputs	2 x 5 (8 SAT + 2 TER)		-				
TER	(F-type connectors)	Line outputs	-	5 (4 SAT	+ 1 TER)				
SAT   6 ± 1dB   4 ± 1dB   5 ± 1dB     Tap loss   TER / SAT   - Rotary switch 12 30 ± 2dB (12, 15, 20, 25, 30dB)     Isolation   > 30dB     Return loss   > 10dB     DC pass   SAT Inputs to SAT Outputs, Bi-directional TER no DC pass   Bi-directional TER no DC pass     External DC injection max. current   3A     Max. current pass per line   2A     Current consumption @18V DC   10mA   40mA   60mA     Operating temperature   -20+55°C     Dimensions (W x L x D)   200 x 140 x 65mm     Weight   595g   605g   630g     Feature   Splitter & Taps UK version   TMSS 5 SPLIT EB   TMST 5x1 TAP EB   TMST 5x2 TAP EB     TMST 5x2 TAP EB   TMST 5x1 TAP EB   TMST 5x2 TAP EB     TMST 5x2 TAP EB   TMST 5x2 TAP EB   TMST 5x2 TAP EB   TMST 5x2 TAP EB   TMST 5x2 TAP EB   TMST 5x2 TAP EB   TMST 5x2 TAP EB   TMST 5x2 TAP EB   TMST 5x2 TAP EB   TMST 5x2 TAP EB   TMST 5x2 TAP EB   TMST 5x2 TAP EB   TMST 5x2 TAP EB   TMST 5x2 TAP EB		Tap ouputs	-	5 (4 SAT + 1 TER)	2 x 5 (8 SAT + 2 TER)				
Tap loss         TER / SAT         -         Rotary switch 12 30 ± 2dB (12, 15, 20, 25, 30dB)           Isolation         > 30dB           Return loss         > 10dB           DC pass         SAT Inputs to SAT Outputs, Bi-directional TER no DC pass         SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass           External DC injection max. current         3A           Max. current pass per line         2A           Current consumption @18V DC         10mA         40mA         60mA           Operating temperature         -20+55°C           Dimensions (W x L x D)         200 x 140 x 65mm           Weight         595g         605g         630g           Feature         Splitter & Taps UK version         TMST 5x1 TAP EB         TMST 5x2 TAP EB	Insertion loss	TER	4 ± 1dB	3 ± 1dB	5 ± 1dB				
Solation   Solation		SAT	6 ± 1dB	4 ± 1dB	5 ± 1dB				
Return loss   SAT Inputs to SAT Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass   SAT Inputs to SAT trunk and tap(s) Outputs   SAT Inputs to SAT trunk and tap(s) Outputs	Tap loss	TER / SAT	-						
SAT Inputs to SAT Outputs, Bi-directional TER no DC pass  External DC injection max. current  AMAx. current pass per line  Current consumption @18V DC  Dimensions (W x L x D)  Weight  SAT Inputs to SAT Outputs, Bi-directional TER no DC pass  SAT Inputs to SAT trunk and tap(s) Outputs, Bi-directional TER no DC pass  3A  40mA  40mA  60mA  -20+55°C  200 x 140 x 65mm  630g  Feature  Splitter & Taps UK version  TMSS 5 SPLIT EB  TMST 5x1 TAP EB  TMST 5x2 TAP EB	Isolation			> 30dB					
Bi-directional TER no DC pass  External DC injection max. current  3A  Max. current pass per line  Current consumption @18V DC  10mA  40mA  60mA  Operating temperature  Dimensions (W x L x D)  Weight  Splitter & Taps UK version  Bi-directional TER no DC pass  10mA  40mA  40mA  60mA  60mA  720+55°C  200 x 140 x 65mm  630g  TMST 5x1 TAP EB  TMST 5x2 TAP EB	Return loss		> 10dB						
Max. current pass per line         2A           Current consumption @18V DC         10mA         40mA         60mA           Operating temperature         -20+55°C           Dimensions (W x L x D)         200 x 140 x 65mm           Weight         595g         605g         630g           Feature         Splitter & Taps UK version         TMSS 5 SPLIT EB         TMST 5x1 TAP EB         TMST 5x2 TAP EB	DC pass		Bi-directional	Bi-directional					
Current consumption @18V DC         10mA         40mA         60mA           Operating temperature         -20+55°C           Dimensions (W x L x D)         200 x 140 x 65mm           Weight         595g         605g         630g           Feature         Splitter & Taps UK version         TMSS 5 SPLIT EB         TMST 5x1 TAP EB         TMST 5x2 TAP EB	External DC injection max.	current		3A					
Operating temperature         -20+55°C           Dimensions (W x L x D)         200 x 140 x 65mm           Weight         595g         605g         630g           Feature         Splitter & Taps UK version         TMSS 5 SPLIT EB         TMST 5x1 TAP EB         TMST 5x2 TAP EB	Max. current pass per line			2A					
Dimensions (W x L x D)         200 x 140 x 65mm           Weight         595g         605g         630g           Feature         Splitter & Taps UK version         TMSS 5 SPLIT EB         TMST 5x1 TAP EB         TMST 5x2 TAP EB	Current consumption @18	Current consumption @18V DC		40mA	60mA				
Weight     595g     605g     630g       Feature     Splitter & Taps UK version     TMSS 5 SPLIT EB     TMST 5x1 TAP EB     TMST 5x2 TAP EB	Operating temperature	Operating temperature		-20+55°C					
Feature Splitter & Taps UK version TMSS 5 SPLIT EB TMST 5x1 TAP EB TMST 5x2 TAP EB	Dimensions (W x L x D)			200 x 140 x 65mm					
UK version TMSS 5 SPLIT EB TMST 5XT TAP EB TMST 5XZ TAP EB	Weight		595g	605g	630g				
Art. no. 318654 318652 318653	Feature		TMSS 5 SPLIT EB	TMST 5x1 TAP EB	TMST 5x2 TAP EB				
	Art. no.		318654	318652	318653				



#### Contact

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