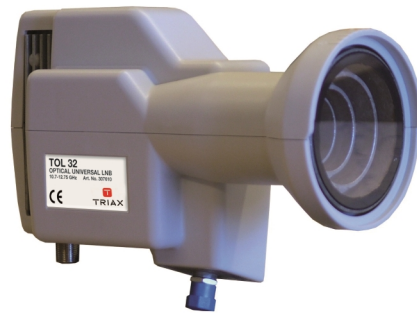


TOL 32 - Optical SAT Fullband LNB, 32-way

Art. Number 307610



TOL 32

The TRIAX TOL32 Optical LNB is a high quality, high performance universal LNB, that, in addition to excellent LNB performance, provides a 1310 nm wideband optical output where all four satellite polarities are stacked into one frequency range (950-5450 MHz). Using modern laser technology this frequency range can be transmitted via a single laser over a very large distance, at a link budget that can sustain splitting into 32 ways.

This allows a system setup that can drive a fairly large Passive Optical Network (PON) before the signal is finally fed into a number of optical re-converters for traditional coax distribution. The stacking/de-stacking technology provides a very cost efficient solution, as a single laser carries the full four satellite polarities in one optical cable. This, in contrast to traditional fibre optical solutions that require one laser per polarity, is a substantial cost saving, without compromising satellite signals, range nor quality.

This means that not only is the investment into fibre optical cables kept at an absolute minimum, the full PON benefit from the same savings too. The Optical LNB is DC power sourced via a coax cable and an F-connector. Power supply is included in the kit. A high-quality FC/PC type fibre optical connector is used for optimum outdoor performance.

Technical Specifications

ORDER INFORMATION

EAN Number 5702663076105

OPTICAL CHARACTERISTICS

Optical output level (nom. @ 25 °C) | dBm 7 dBm
 Optical budget for PON (max.) | dB 19.0 dB
 Optical splitting in PON (max.) 32

CHARACTERISTICS

LNB type Opto
 Wavelength | nm 1310 nm
 Laser class 1M
 Feedhorn diameter | mm 40 mm



Technical Specifications

Reception frequency range GHz	10.7 - 12.75 GHz
Reception polarization	horizontal & vertical
SAT-IF vertical band, stacked VL + VH GHz	0.950 - 3.0 GHz
SAT-IF horizontal band, stacked HL + HH GHz	3.4 - 5.45 GHz
L.O. frequency, vertical GHz	9.75 GHz
L.O. frequency, horizontal GHz	7.3 GHz
Image frequency rejection (min.) dB	40 dB
Spurious in SAT-IF band dBc	-25 dBc
Fibre link distance max. (subject to PON loss) km	10 km

GAIN

Gain dB	62 - 72 dB
Noise figure (typical) dB	0.5 dB

ISOLATION

Cross polar isolation (typ.) dB	30 dB
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OPERATIONAL

DC Operating voltage VDC	12 VDC
DC Current consumption mA	< 450 mA
PSU/adaptor INFO	Included Euro Plug (CEE 7/17)
PSU/adaptor Art number	307658 (TPS322-12Vdc/0.5A)
Temperature - operating °C	-30 ...60 °C
Temperature - storage °C	-40 ...70 °C

CONNECTORS

Connector OUT	Optical - FC/PC
Connector power supply	F-female

MECHANICAL

Dimensions product (H x D x W) mm	173 x 108 x 68 mm
Product Height mm	175 mm
Product Width mm	113 mm
Product Depth mm	50 mm
Packaging Height m	0.084 m
Packaging Width m	0.185 m
Packaging Depth m	0.115 m
Packaging Volume m ³	0.002 m ³
Net Weight kg	0.758 kg
Tara Weight kg	0.051 kg
Total Weight kg	0.809 kg