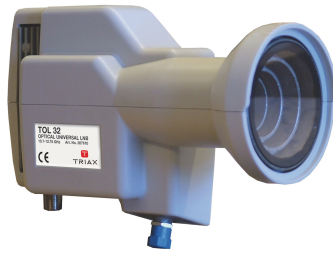




# TRIAX

connecting the future



## TOL 32 - Optical SAT Fullband LNB, 32-way

Article number: 307610

### Product description:

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.

### Specifications

#### ORDER INFORMATION

|            |               |
|------------|---------------|
| EAN Number | 5702663076105 |
|------------|---------------|

#### OPTICAL CHARACTERISTICS

|  |                               |
|--|-------------------------------|
| Optical output level (nom. @ 25 °C)            | 7 dBm                         |
| Optical budget for PON (max.)                  | 19.0 dB                       |
| Optical splitting in PON (max.)                | 32                            |
| <b>CHARACTERISTICS</b>                         |                               |
| LNB type                                       | Opto                          |
| Wavelength                                     | 1310 nm                       |
| Laser class                                    | 1M                            |
| Feedhorn diameter                              | 40 mm                         |
| Reception frequency range                      | 10.7 - 12.75 GHz              |
| Reception polarization                         | horizontal & vertical         |
| SAT-IF vertical band, stacked VL + VH          | 0.950 - 3.0 GHz               |
| SAT-IF horizontal band, stacked HL + HH        | 3.4 - 5.45 GHz                |
| L.O. frequency, vertical                       | 9.75 GHz                      |
| L.O. frequency, horizontal                     | 7.3 GHz                       |
| Image frequency rejection (min.)               | 40 dB                         |
| Spurious in SAT-IF band                        | -25 dBc                       |
| Fibre link distance max. (subject to PON loss) | 10 km                         |
| <b>GAIN</b>                                    |                               |
| Gain   | 62 - 72 dB                    |
| Noise figure (typical)                         | 0.5 dB                        |
| <b>ISOLATION</b>                               |                               |
| Cross polar isolation (typ.)                   | 30 dB                         |
| <b>OPERATIONAL</b>                             |                               |
| DC Operating voltage                           | 12 VDC                        |
| DC Current consumption                         | < 450 mA                      |
| PSU/adaptor INFO                               | Included Euro Plug (CEE 7/17) |
| PSU/adaptor Art number                         | 307658 (TPS322-12Vdc/0.5A)    |
| Temperature - operating                        | -30 ...60 °C                  |
| Temperature - storage                          | -40 ...70 °C                  |
| <b>CONNECTORS</b>                              |                               |
| Connector OUT                                  | Optical - FC/PC               |
| Connector power supply                         | F-female                      |

## MECHANICAL

|                                |                   |
|--------------------------------|-------------------|
| Dimensions product (H x D x W) | 173 x 108 x 68 mm |
| Packaging Height               | 0,083 m           |
| Packaging Width                | 0,115 m           |
| Packaging Depth                | 0,180 m           |
| Packaging Volume               | 0,002 m3          |
| Net Weight                     | 0,750 kg          |
| Tara Weight                    | 0,048 kg          |
| Total Weight                   | 0,798 kg          |

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