

OTX 1310, SAT FO Headend Kit

Art. Number 307785



The **OTX 1310 SAT Fibre Optic Headend Kit** consists of the Wideband LNB TWB 40 and the OTX 1310 SAT FO Transmitter including the wall plug PSU. This headend enables to distribute the vertical and horizontal SAT widebands combined with terrestrial broadcast channels over a fibre optic (FO) network to a large amount of buildings and homes.

The TWB 40 should be installed on a TRIAX dish with diameter 85...120cm. The OTX transmitter unit can be mounted in- or out-door. A special bracket for mount on the mast can be ordered as OTX-MB (307789).

The OTX Transmitter has two coaxial RF inputs for connecting with the vertical and horizontal SAT-IF signal cables coming from the Wideband LNB. The LNB is voltage supplied from the V- port (+12V) and the H-port (+20V). Please note: the LNB TWB 40 uses the V-port for DC supply only. The OTX Transmitter unit itself consists of the frequency stacker for the SAT-IF H and V bands and the TER band and the laser transmitter. The OTX FO Headend is able to drive a PON (Passive Optical Network) with optical split up to 32 outlines where the TRIAX optical re-converters TVQ 06, TVC 06 and TOM 08 M/S can be connected directly.

OTX 1310 designed with 1310nm laser transmitter is the most cost efficiently variant within the OTX family and supports the standard applications as described above. The optical network can be significantly expanded by using of active TRIAX FO Repeaters OTO 32 (307787).

Technical Specifications

ORDER INFORMATION

EAN Number 5702663077850

OPTICAL CHARACTERISTICS

Optical budget for PON (max.) dB	19 dB
Optical cabletype	Single-mode
Optical output level (nom. @ 25 °C) dBm	8 dBm
Optical splitting in PON (max.)	32

CHARACTERISTICS

Laser class	1M
LNB feed voltage (through SAT-IF input) VDC	via V port +12 VDC



Technical Specifications

LNB type	Coaxial Wideband
L.O. frequency, horizontal GHz	10,41 GHz
L.O. frequency, vertical GHz	10,41 GHz
Reception frequency range GHz	10.7 - 12.75 GHz
Reception polarization	horizontal & vertical
TER input level range DTT @ 6 transponders	70 dB μ V
Wavelength nm	1310 nm

FREQUENCY RANGE

Frequency range SAT MHz	290...2340 MHz
Frequency range TER MHz	87,5...694 MHz

ELECTRICAL

Impedance Ω	75 Ω
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OPERATIONAL

DC Current consumption mA	(incl. WB LNB) 350 mA
DC Operating voltage VDC	20 VDC
PSU/adapter Art number	incl. TPS323-20Vdc/1.2A (307657)
AC Supply voltage VAC	100...240 VAC
PSU/adapter INFO	Incl. Euro Plug (CEE 7/17)
TER feed voltage (through TER input) VDC	12 VDC
Weather Proof Rating	IP 54 (LNB and OTX unit)

CONNECTORS

Connector Optical	FC/PC "OUT"
Connector DC	F-female "+20V"
Connector IN	F-female "H" + F-female "V"
Connector TV	F-female "TER"

MECHANICAL

Packaging Depth m	0.170 m
Packaging Height m	0.110 m
Total Weight kg	0.900 kg
Packaging Width m	0.175 m
Net Weight kg	0.690 kg
Packing QTY	1
Tara Weight kg	0.210 kg
Packaging Volume m ³	0.003 m ³