

OTX 1310, SAT FO Headend Kit



The OTX 1310 fibre-optic headend kit comprises a wideband LNB, an optical transmitter and a power supply. This system enables the distribution of a satellite's four polarities and the terrestrial signal via a single fibre-optic cable to a large number of users.

The LNB wideband must be installed on an RPA satellite dish with a diameter of between 80 and 120 cm. The OTX unit can be mounted either indoors or outdoors.

The OTX transmitter has two coaxial RF inputs for connecting the two outputs of the wideband LNB carrying the vertical and horizontal signals. The LNB is powered via the vertical port (+12 Vdc) and the horizontal port (+20 Vdc). The transmitter converts terrestrial and satellite RF signals, using frequency stacking, into an optical signal capable of serving up to 32 users on a passive optical network (PON), to which QUAD GTU or QUATRO GTU optical receivers can be connected directly.

The OTX 1310 operates in the 1310 nm wavelength range and is compatible with the applications described above.

Technical Specifications

OTX 1310	
Reference	4970
Optical Specifications	
Optical output level (nominal @ 25 °C)	8 dBm
dBm PON attenuation (max.) dB	19 dB
PON optical splitter (max.)	1:32
Fibre type	Monomodo
Features	
LNB	Coaxial Wideband
Wavelength nm	1310 nm
Laser class	1M

Technical Specifications

Reception frequency range GHz	10.7 - 12.75 GHz
Reception polarisation	horizontal & vertical
O.L. frequency, vertical GHz	10,41 GHz
O.L. frequency, horizontal GHz	10,41 GHz
Terrestrial input level @ 6 transponders dBμV	70 dBμV

LNB supply voltage (via SAT-IF input)	+12 "V" / +20 "H" VDC
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FREQUENCY RANGE

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

ELECTRICAL

Impedance Ω	75 Ω
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OPERATIONAL

TERR feed voltage (via TERR input) VDC	12 VDC
F.A. supply voltage VAC	100...240 VAC
F.A. DC output voltage VDC	20 VDC
DC current consumption mA	(incl. WB LNB) 350 mA
PSU/adaptor INFO	Incl. Euro Plug (CEE 7/17)
PSU/adaptor part number	incl. PSU-QUATRO-20Vdc/1.2A (4951)
IP range	IP 54 (LNB and OTX unit)

CONNECTORS

SAT connectors	F-female "H" + F-female "V"
TV connector	F-female "TER"
DC connector	F-female "+20V"
Optical output connector	FC/PC "OUT"