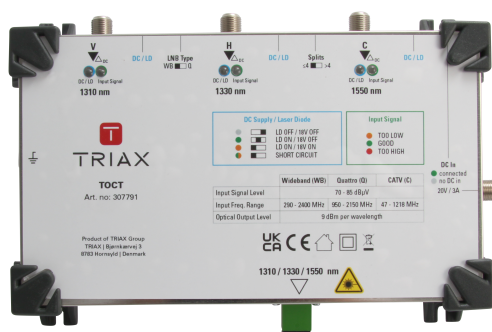


TOCT Optical Combined Transmitter

Art. Number 307791



Integrated services on a single fibre

- SAT-IF distribution over fibre optics (FO) can supply many households over larger distances, with feed from a central satellite dish station.
- Almost lossless transmission of satellite, DVB-T and DAB signals. Attenuation per 1000 m only about 0.3 dB.
- Future-proof and widest possible variety of channels.
- Space-saving installation - a 3 mm optical fibre replaces five 7 mm coaxial cables.

TOCT - TRIAX Optical Combined Transmitter is the core component on headend side of the TOF (Triax Optical Fibre) system. This unit converts RF Wideband or Quattro SAT-IF and terrestrial FM, DAB, DVB-T or CATV services for transmission over a PON (Passive Optical Network).

- The transmitter is an installer friendly plug-and-play solution thanks to built-in Automatic Gain Control (AGC) and Automatic Slope Control (ASC) of the RF inputs.
- The TOCT consists of three separate optical transmitters 1310nm / 1330nm for wideband SAT-IF LOW and HIGH and 1550nm for the terrestrial RF path. They are combined to WDM signal at the output for transmission over single mode fibre cabling.
- The optical output signal of this headend unit can drive up to 64 optical splits directly.
- Up to 128 splits can be deployed when using the TWOC or TWCT wideband converters.
- Terrestrial antennas have to be connected via an LTE filtered, selective pre-amplifier like the TMB 2500UK. The insertion of the Terrestrial Channel Processor TMB 2500UK (360238) before the RF inputs of the TOCT is to ensure that the SAT and TER channels are equalized to uniform RF levels.
- Please order mains PSU adapter separately, preferred 18V/2A (318166).

Technical Specifications

ORDER INFORMATION

EAN Number 5702663077911

OPTICAL CHARACTERISTICS

Optical output power | dBm 9 dBm
Optical splitting in PON (max.) 64 / 128*

CHARACTERISTICS

Technical Specifications

AGC (Automatic Gain Control) dB	15 dB
Gain ripple across band (max.) dB	±1.5 dB
Laser class	M1
Laser type	DFB
LNB feed voltage (through SAT-IF input) VDC	18 VDC
LNB type	Wideband / Quattro switchable
SAT-IF input level range dBμV	70...85 dBμV
TER input level range DAB dBμV	70...85 dBμV
TER input level range FM dBμV	70...85 dBμV
Wavelength nm	1310 / 1330 / 1550 nm

FREQUENCY RANGE

Frequency range TER MHz	47...1218 MHz
RF frequency range, horizontal polarities GHz	290...2400 GHz
RF frequency range, vertical polarities GHz	290...2400 GHz

OPERATIONAL

DC Operating voltage VDC	18...20 VDC
PSU/adapter Art number	318166 - 18-20V/2-3A PSU adapter to mains 100...240Vac UK plug
PSU/adapter INFO	To be ordered separately
Remote Supply V/mA	18/400 + 13/200 V/mA
Temperature - operating °C	-10...+50 °C
TER feed voltage (through TER input) VDC	13 VDC
Weather Proof Rating	Indoor

CONNECTORS

Connector Optical	SC/APC
Connector power supply	F-female
RF inputs	3 x Ff: Sat V, Sat H, TER/CATV

MECHANICAL

Dimensions product (H x D x W) mm	141 x 50 x 221 mm
Packaging Depth m	0.057 m
Packaging Height m	0.295 m
Total Weight kg	0.645 kg
Packaging Width m	0.160 m
Net Weight kg	0.535 kg
Packing QTY	1
Remarks	*) TWCT Only
Tara Weight kg	0.110 kg
Packaging Volume m3	0.003 m3