

T.OX Video Overlay Headends

Transmitter that generates an optical output of 1550 nm, modulated by the incoming RF signal.
Refs. 234811 and 234826 generate an optimal output signal quality without requiring high input levels (between 75 and 90dB μ V / 15 and 60dBmV), delivering both analog and digital signals.

- ▶ Variable modulation depth (RF drive level) and precise optical power levels enables superior link optimization.
- ▶ Simple plug-and-play operation. OMI test point.
- ▶ User selectable Automatic Gain Control (AGC).
- ▶ Laser temperature control system.

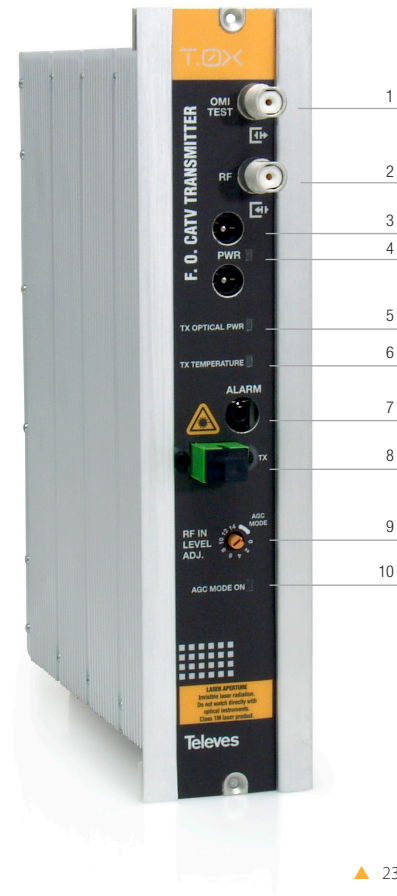
Moreover, ref. 234826 is able to keep intermodulation features for distances above of 30Km.

Ref. 234305 has an input margin of 2,1GHz, ideal for TVSAT signals distribution (by IF).

REF.	DESCRIPTION
234811	Optical Tx 1550nm 10dBm + AGC
234826	Optical Tx 1550nm 6dBm (w/external modulation) + AGC
234305	Optical Tx 1550nm 4dBm

CONNECTIONS	
1	OMI Test point
2	RF input
3	Power BUS
4	On power led
5	Optical power led: green laser active, red laser alarm.
6	Laser temperature led: green laser temp OK, red laser temp ALARM.
7	Alarm connector
8	Optical Output (Laser aperture, class 1M laser)
9	RF control attenuation
10	AGC led: white AGC mode selected

OPTICAL TRANSMITTER



▲ 234811

Reference			234811	234826	234305
RF	RF frequency range	MHz	47 - 1100	47 - 1200	54 - 2150
	RF input level	dB μ V/dbmV	90 /30	90 /30	85/25
	RF gain adjust	dB	0...14	0...14	0...18
	CAG control	dB	15	15	-
	Flatness	dB	± 1	± 1	$\pm 1,5$
	CSO (CENELEC 42)	dB	60 ⁽¹⁾	60 ⁽²⁾	60 ⁽¹⁾
OPTICAL	CTB (CENELEC 42)	dB	60 ⁽¹⁾	60 ⁽²⁾	60 ⁽¹⁾
	Laser	type	MQW-DFB cooled	DBR-SOA, Mach-Zender	MQW-DFB
	Wavelength	nm	1550 \pm 20	1550 \pm 20	1550 \pm 20
GENERAL	Output power	dBm	10	6	4
	Powering	Vdc	12-24	12 - 24	12-24
	Power consumption	mA	360-220	400-250	265-140
Dimensions (WxHxD)	mm		50 x 217 x 175	50 x 217 x 175	50 x 217 x 175
	inch		1.96 x 8.54 x 6.88	1.96 x 8.54 x 6.88	1.96 x 8.54 x 6.88

(1) 42 CENELEC channels plan. 1km of standar fiber followed by a 8 output splitter. Input power into reference receiver (M2Optics-FOS -FOS 1000A- equipment) is -1dBm.
(2)42 CENELEC channels plan. 30km of standar fiber followed by a 8 output splitter. Input power into reference receiver (M2Optics-FOS -FOS 1000A- equipment) is -1dBm.