



Outdoor CATV optical node equipped with Return Path transmitter and OLC technology 1200...1600 nm, Return: 1310 nm, Po 3 dBm

Highly configurable optical node for cable operators. Receives one optical signal in the 1200 nm -1600 nm range and restores it on the 2 RF output (54 MHz-1220 MHz) with amplification. Equipped with a Return Path transmitter (5 - 42/5 - 300MHz) in the 1310 nm window, with 3 dBm optical power.

Equipped with OLC technology.

The aluminium frame enables outdoor installation (local power supply).

Perfect for RF Overlay, FTTB, and FTTC applications.

Ref.	231080
EAN13	8424450168790

Packing

Box	1 pcs.
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Physical data

Net weight	1,779.00 g
Gross weight	2,000.00 g
Width	240.00 mm
Height	195.00 mm
Depth	90.00 mm
Main product weight	1,707.00 g

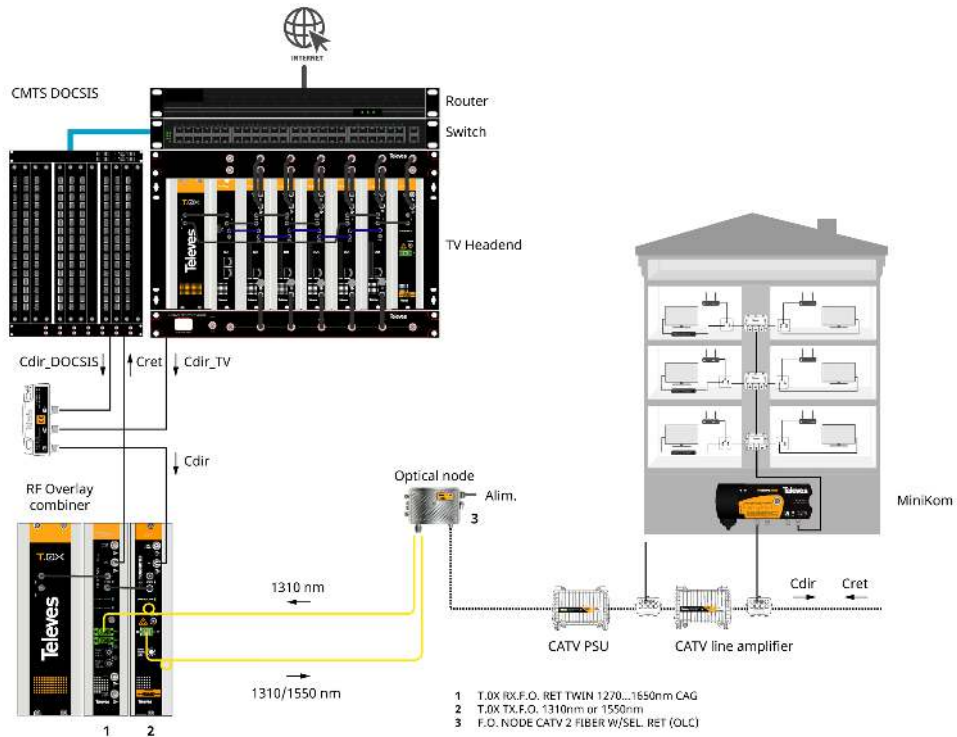
Highlights

- Selectable return path band:
 - Narrow band (NB): 5-42MHz (6 channels). Best combination of attenuators up to measure 16-17dBmV per channel
 - Wide band (WB): 5-300MHz (28 channels). Best combination of attenuators up to measure 10-12dBmV per channel
- The OLC (Optical Level Control) technology automatically adjusts the parameters to achieve a constant output level, irrespective of the channel load
- Equipped with pre-equalization, attenuation, and equalization controls to adapt the output signal to the coaxial network characteristics
- High output voltage (RF amplification) and enhanced C/N
- Wide reception optical range
- Low power consumption

Main features

- 1 or 2 selectable outputs
- The test point avoids user service outage during maintenance
- The F connectors can be replaced with 1/2"-cable adapters (ref.4121)
- Local powering
- SC/APC optical connectors, and F-type connectors for RF
- Outdoor installation (IP65)

Application example



Technical specifications

Foward Path		
Optical stage		
Wavelength	nm	1200 - 1600
Optical return loss	dB	>40
Optical input level for OLC	dBm	-8 ... +1dBm
Max optical input power before damage	dBm	+4
Optical device	type	InGaAs pin photodiode
Optical connector	type	SC/APC
RF stage		
Frequency range	MHz	54 ... 1220
Output impedance	Ohm	75
RF output return loss	dB	>10
Input attenuattor	dB	4/6 select.
Inter stage attenuator	dB	1/2/3/4/5/6/7/8 select.
Output level slope	dB	4/9 select.
Flatness	dB	± 0.75
Number of outputs (selectable)	no.	1 / 2
Typical output level in OLC range, port 1	dBmV	53
CNR	dB	>52
CSO	dB	>60
CTB	dB	>60
Test point, inside	dB	-30
RF connectors	type	5/8 entry fitting with F adapter
Return Path		
Optical stage		
Wavelength	nm	1310±20
Optical output level	dBm	3
Optical return loss	dB	>40
Laser type	type	DFB (Class1M)
Optical connector	type	SC/APC
RF stage		
Frequency range (selectable)	MHz	NB: 5 ... 42 WB: 5 ... 300
Input impedance	Ohm	75
RF input level	dBmV	15 ... 30
RF input level control	dB	0 ... -10 (step 2dB), -14, -18
General		
Local Mains voltage	V~	110 ... 230
Mains frecuency range	Hz	50/60
Max. current consumption	mA	300

Max. power consumption	W	16.5
Housing material		Aluminium
Mains cord input	type	PG-7
Optical fiber input	type	PG-13,5
Operating temperature	°F	14 113
Index operation	IP	65