



FiberKom mini-optical node equipped with Return Path transmitter and OLC technology (1 fiber) 1550 nm, Return: 1610 nm, Po 3 dBm

Mini-optical node to act as a bridge between coaxial technology and optical networks. Transforms the optical signal (1550 nm) on the main network into a coaxial signal (105 MHz-1220 MHz) that travels to the user's modem. It also transforms the coaxial modem's signal (5 MHz-85 MHz) into an optical signal for the operator's headend, thanks to the the Return Path transmitter on the 1610 nm window with 3 dBm optical power. Uses a single fiber for both the forward and the Return Paths. Perfect for installations where the DOCSIS protocol is used for the bidirectional distribution of data, and the DVB-C standard is used for television signals. Equipped with OLC technology. Perfect for RF Overlay, FTTB, and FTTH applications.

Ref.	238005
Logical ref.	OMNRK1610N
EAN13	8424450177907

Packaging info

Box	1 pcs.
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Physical data

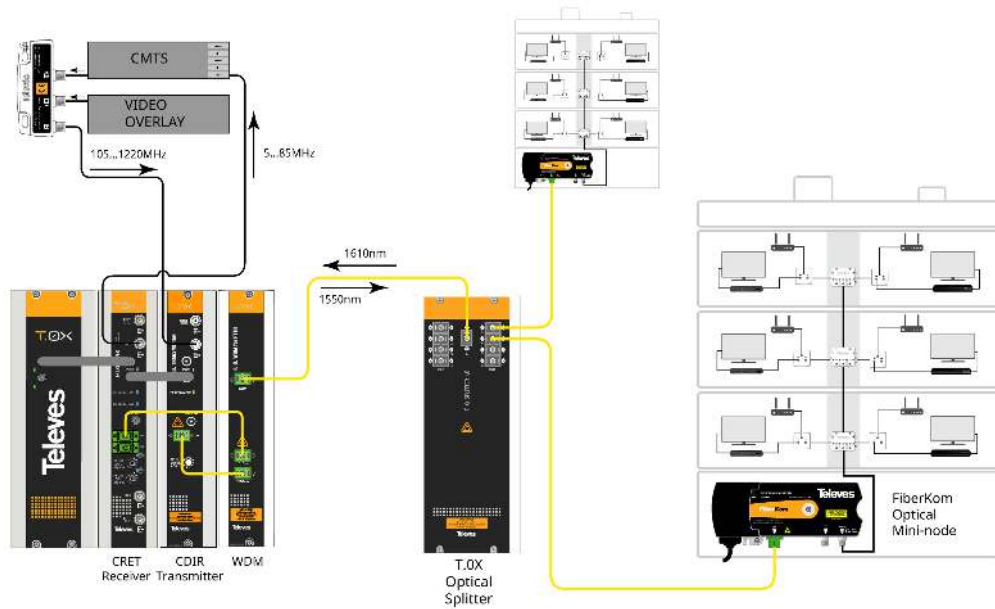
Net weight	499.00 g
Gross volume	0.90 dm ³
Gross weight	499.00 g
Width	187.00 mm
Height	89.00 mm
Depth	34.00 mm
Main product weight	499.00 g

Highlights

- The OLC (Optical Level Control) technology automatically adjusts the parameters to achieve a constant output level, irrespective of the channel load
- Equipped with attenuation controls
- High output voltage (RF amplification) and enhanced C/N
- Very low power consumption
- DOCSIS compatible
- Two operation modes:
 1. CW (Continuous Wave) in which the laser transmits continuously; useful in applications where the Return Path is attenuated (FTTB).
 2. RFoG (RF over Glass) where the laser only transmits when there are packets to be transmitted; it is therefore recommended for installations with minimal attenuation on the Return Path (FTTH).
- SC/APC optical connectors, and F-type connectors for RF
- Either local or remote powering via the output F connector

Application example

FTTB application with a single fibre.



Technical specifications : Ref. 238005

Inputs/Bands		RET	FWD
Frequency range	MHz	5 ... 85	105 ... 1220
Output level	dBmV	--	33
Input level	dBmV	10 ... 40	--
Flatness	dB	-1 ... 1	-1 ... 1
Attenuator (selectable)		0 dB / 10 dB / 20 dB	12 dB / 6 dB
Selectable pre-emphasis			3 dB
C/N	dB		> 52
CSO	dB		> 60
CTB	dB		> 60
Equivalent noise current density at input	pA/√Hz		< 6
Test point	dB		-30
Input wavelength	nm		1540 ... 1560
Optical input power	dBm		-8 ... 1
Max. optical power	dBm		2
Optical return losses	dB		> 40
Optical connectors Input			SC/APC
Optical receiving device			InGaAs PIN photodiode
Output wavelenght	nm		1610
Optical output power	dBm		3
Optical connectors Output			SC/APC
Turn-on/off transmitter time	µs		1
Transmitter type			DFB
RF connectors			"F" female
Input impedance	Ω		75
Output impedance	Ω		75
Input voltage	Vac		99 ... 253
Max. current	mA		75
Powering RF	Vdc		11 ... 24
Max current RF	mA		270
Max. power	W		4
Operating temperature	°F		23 ... 113
Protection index (IP)			30

Measure made with a transmitter 234310. The RF input level into the transmitter was 86dBµV. 42 ch CENELEC