



## 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.

<b>Ref.</b>	238005
<b>Logical ref.</b>	OMNRK1610N
<b>EAN13</b>	8424450177907

## Packaging info

<b>Box</b>	1 pcs.
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## Physical data

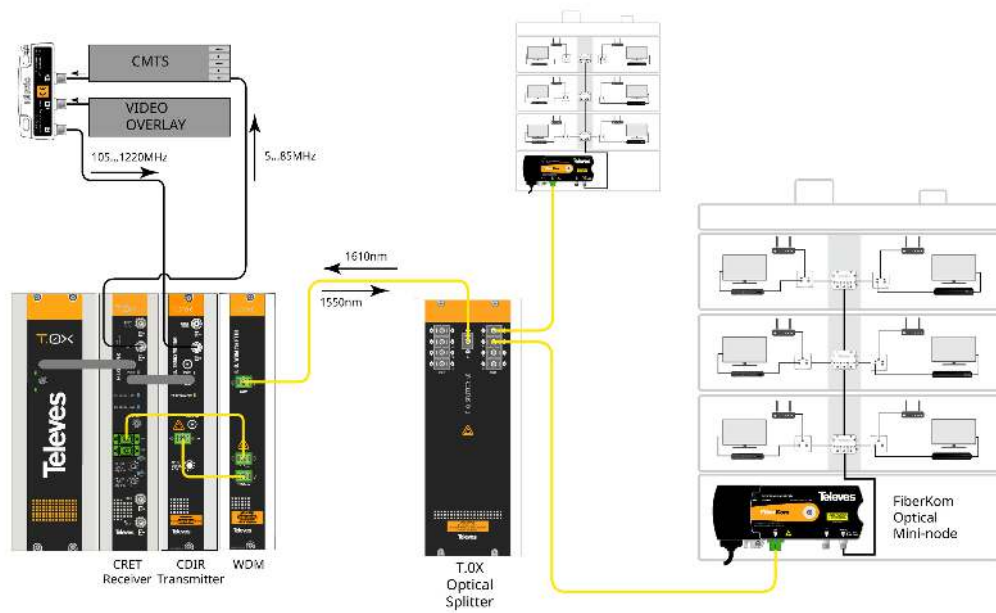
<b>Net weight</b>	499.00 g
<b>Gross weight</b>	499.00 g
<b>Width</b>	187.00 mm
<b>Height</b>	89.00 mm
<b>Depth</b>	34.00 mm
<b>Main product weight</b>	499.00 g

## 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

Number of outputs		1
Frequency range FWD	MHz	105 ... 1220
Output level	dBµV	93
Flatness FWD	dB	-1 ... 1
Output impedance	Ω	75
Attenuator (selectable)		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 level	dBm	-8 ... 1
Optical input power Max	dBm	2
Optical return losses	dB	> 40
Optical device		InGaAs pin photodiode
Optical connectors Input		SC/APC
Frequency range (Return path) (selectable)		5...85 MHz
Input level RET	dBµV	70 ... 100
Flatness RET	dB	-1 ... 1
Input impedance	Ω	75
Attenuator (selectable) RET		0 dB / 10 dB / 20 dB
Output wavelength	nm	1610
Optical output level	dBm	3
Optical connectors Output		SC/APC
Turn-on/off transmitter time	µs	1
Transmitter type		DFB
Input voltage	Vac	99 ... 253
Max. current	mA	75
Powering RF	Vdc	11 ... 24
Max current RF	mA	270
Max. power	W	4
RF connectors		"F" female
Operating temperature	°C	-5 ... 45
Protection index (IP)		30

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