FiberKom optical mini-receiver equipped with OLC technology 1200...1600 nm

Optical mini-receiver for small MDU (Multi Dwelling Unit); receives one optical signal in the 1200 nm-1600 nm range and restores it on one RF output (47 MHz-1220 MHz) with amplification. Equipped with OLC technology.
Perfect for RF Overlay, FTTB, and FTTH applications.

Ref.	238079
Logical ref.	OME1216E
EAN13	8424450183083

Other features

Powering method	Local powering

Packaging info

Box	1 pcs.

Physical data

Net weight	500.00 g
Gross weight	500.00 g
Width	187.00 mm
Height	89.00 mm
Depth	34.00 mm
Main product weight	500.00 g

Highlights

- The OLC (Optical Level Control) technology automatically adjusts the parameters to achieve a constant output level, irrespective of the channel load

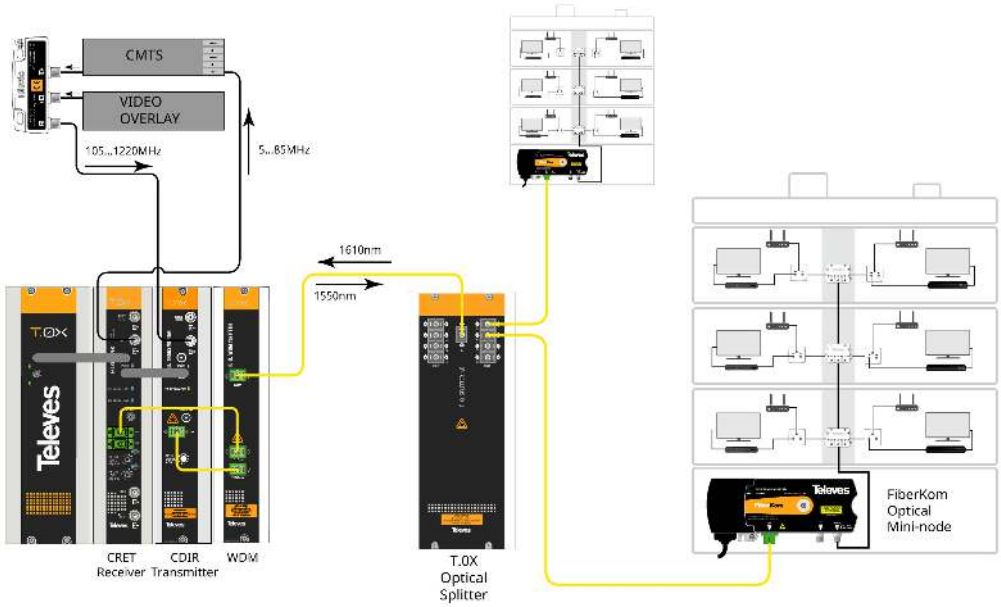
- Equipped with pre-equalization, attenuation, and equalization controls to adapt the output signal to the coaxial network characteristics
- High output voltage (RF amplification) and enhanced C/N
- Wide reception optical range
- Low power consumption

Main features

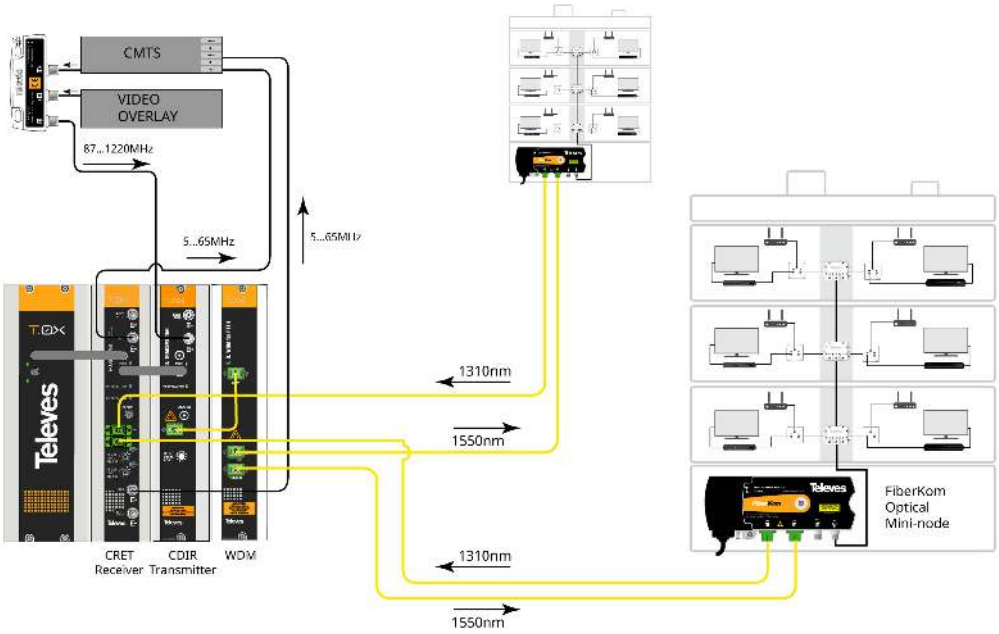
- SC/APC optical connectors, and F-type connectors for RF

Application example

FTTB application with a single fibre.



FTTB application with two fibres.


CMTS
VIDEO OVERLAY
87...1220MHz
5...65MHz
5...65MHz
1310nm
1550nm
1310nm
1550nm
CRET
Receiver
CDIR
Transmitter
WDM
FiberKom
Optical
Mini-node

Technical specifications

Forward path		
Frequency range	MHz	47 ... 1220
Output impedance	Ohm	75
Optical input level for OLC	dBm	-8 ... +1dBm
Flatness	dB	± 1
Number of outputs	no.	1
Typical output level in OLC range	dBµV / dBmV	100 / 40
CNR	dB	>51
CSO	dB	>60
CTB	dB	>60
Equivalent noise current density at input	pA/ Hz	< 6
Gain control (2dB steps)	dB	0... 18
Pre-emphasis	dB	3, 7, 9
Wavelength	nm	1200 - 1600
Optical return loss	dB	>40
Optical connector	type	SC/APC
Max. optical input power before damage	dBm	2
Optical device	type	InGaAs pin photodiode
General		
Power voltage / Max. consumption	V=/mA	11 / 340.... 35 / 140 (ref. 238101) 99 / 75 ... 253 / 40 (ref. 238079)
Test point	dB	-30 ±1
RF connectors	type	F
Housing material		Zamak/ABS
Operating temperature	ºC / ºF	-5...+45 / +23....+113
Index operation	IP	30
EMC compatibility		EN 50083-2
Safety		EN 60825-1