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Outdoor SMATV optical receiver 1200...1600 nm

Highly configurable optical receiver for cable operators. Receives one optical signal in the 1200 nm -1600 nm range and restores it on the RF output (87 MHz-862 MHz /950 MHz-2150 MHz) with amplification. The aluminium frame enables outdoor installation (local power supply).

Perfect for RF Overlay, FTTB, and FTTC applications.

Ref.231201

Art.Nr

ON1216WV

EAN13

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Highlights

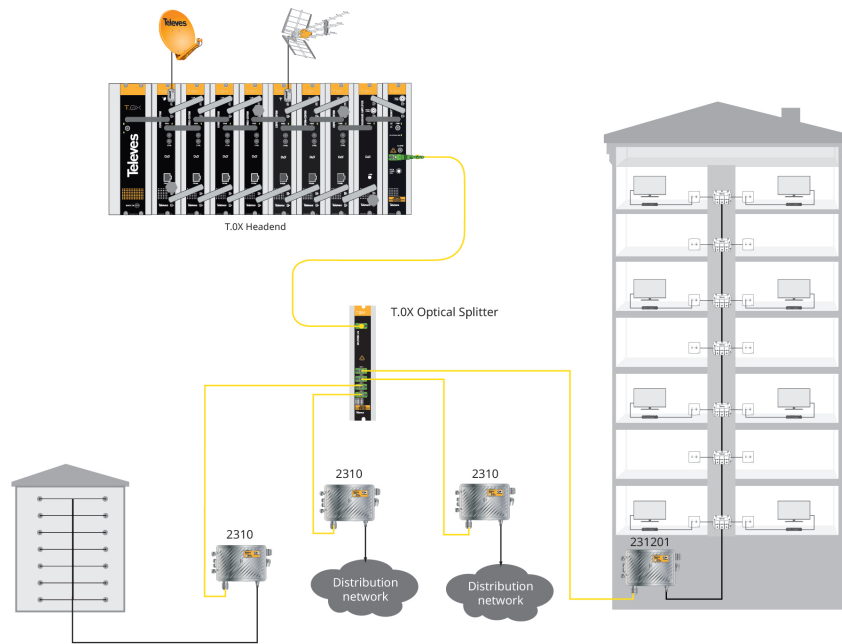
- SMATV-compatible: up to 2150 MHz bandwidth
- Equipped with pre-equalization, attenuation, and equalization controls to adapt the output signal to the coaxial network characteristics
- High output voltage (RF amplification) and enhanced C/N
- Wide reception optical range
- Low power consumption

Main features

- 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

(Click to see the picture)



Technical specifications

Forward Channel		
Optical Stage		
Wavelength	nm	1200 - 1600
Optical return loss	dB	-40
Optical input range (recommended)	dBm	-10 ... +2
Maximum permanent optical input level	dBm	+3
RF Stage		
Frequency range	MHz	950 - 2150
Impedance	Ohm	75
RF output return loss (typ.)	dB	>7,5
Attenuator between stages (typ.)	dB	
Equaliser (typ.)	dB	0 - 10
Flatness (typ.)	dB	±1.5
Output level 42 CH Cenelec (CSO >60 dB typ.) (CTB >60 dB typ.) (typ.)	dBμV	---
Output level DIN VDE0855/12 (typ.)	dBμV	120
C/N for analogue channels	dBc>45	
Test output, inside	dB	-27 ±1.5
Return channel		
Optical Stage		
Laser type		Fabry-Perot (Class 1M)
Wavelength	nm	1310
Output power	dBm	3
RF Stage		
Frequency range	MHz.	5-65
Impedance	Ohm	75
Return losses (typ.)	dB	>10
Flatness (typ.)	dB	±2
Maximum input signal level	dBμV	90
General		
Supply voltage	V~	196 - 264
Maximum current	Amp	0.16
Max. power	W	17
RF Connector		F-PG 11
Optical Connector		SC/APC
Housing material		Aluminium
Index of protection		IP65
Operating Temperatura	°C	-5 ... +45