



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
Logical ref.	ON1216WV
EAN13	8424450160718

Packaging info

Box	1 pcs.
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Physical data

Net weight	1,851.00 g
Gross weight	1,851.00 g
Width	240.00 mm
Height	190.00 mm
Depth	90.00 mm
Main product weight	1,626.00 g

Highlights

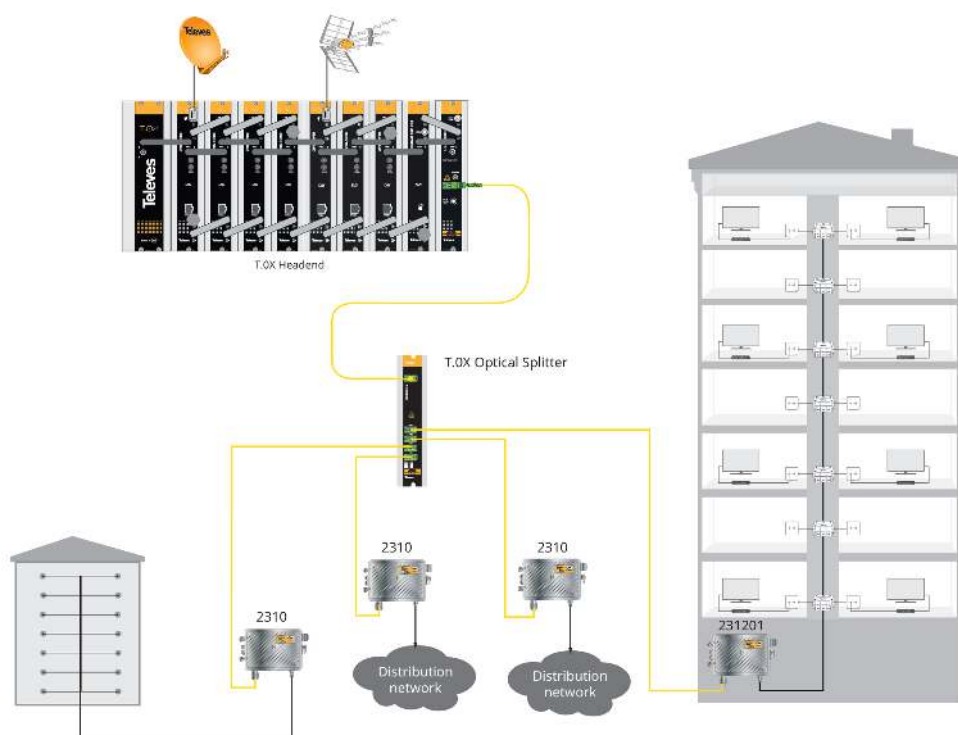
- SMATV-compatible: up to 2150 MHz bandwidth
- Equipped with pre-equalization, attenuation, and equalization controls to adapt the output signal to the coaxial network characteristics

- 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



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