



4-output EDFA optical amplifier with WDM, 1RU rack 19" 1550 nm, Po 14 dBm

This device consists of an amplifier, a WDM, and a double power supply. It amplifies the 1550 nm optical signal producing an optical output power of 14 dBm. Based on EDFA (Erbium doped fiber) technology, it provides a high gain and a low noise factor.

Equipped with WDM, it includes four 1310 nm/1490 nm-inputs that multiplex the amplified 1550 nm-signal, providing four 1310 nm/1490 nm/1550 nm-outputs, making it suitable for video overlay distribution in medium size splitting GPON optical networks.

Ref.	769631
Logical ref.	OV1U14WDMS4
EAN13	8424450224168

Packing

Box	1 pcs.
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Physical data

Net weight	3,710.00 g
Gross weight	5,410.00 g
Width	482.00 mm
Height	44.00 mm
Depth	376.00 mm
Main product weight	3,710.00 g

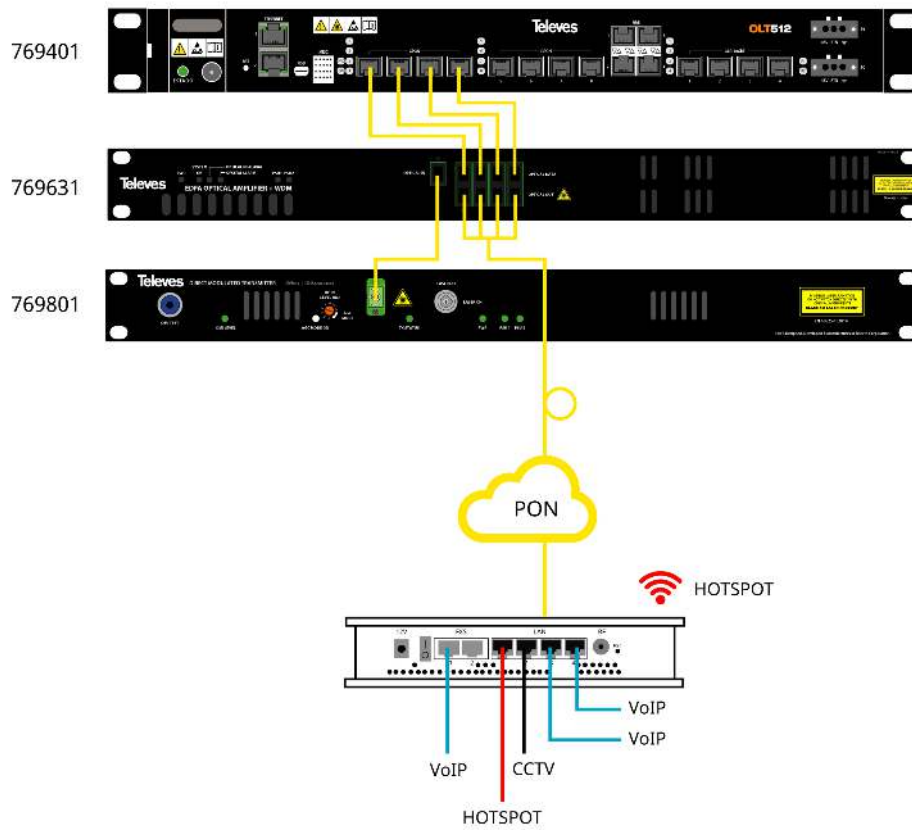
Highlights

- High-optical output power amplifier
- Equipped with WDM for the multiplexing of RF Overlay with GPON signals
- -10 dBm to +10 dBm input range
- Status LED indicators
- High-efficiency power supply
- Hot swappable double power supply: subscriber service is not interrupted

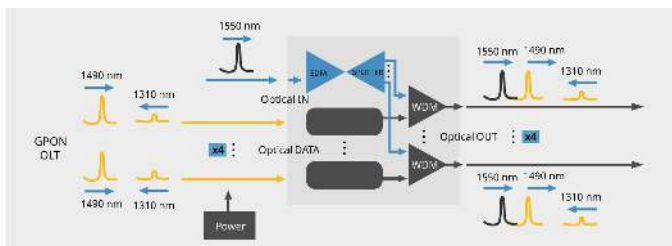
Main features

- 1RU for rack 19"
- Extended range (99-253 VAC) power supply
- Suitable for medium/large size optical networks
- SC/APC optical connectors

Application example



Graphic documentation



Block diagram

Technical specifications : Ref. 769631

Number of input optical ports RF Overlay		1
Number of optical ports DATA (GPON)		4
Number of output optical ports		4
Wavelength (@RF Overlay)	nm	1540 ... 1560
GPON Wavelength (@Upstream)	nm	1310
GPON Wavelength (@Downstream)	nm	1490
Optical input power RF Overlay Min	dBm	-10
Optical input power RF Overlay Max	dBm	10
Optical output power RF Overlay	dBm	14
Noise figure Max	dB	5.5
Optical return losses	dB	-40
GPON Insertion losses Max	dB	1
C/N	dB	51
CSO Max	dB	-65
CTB Max	dB	-65
Optical connectors		SC/APC
Protection index (IP)		20
Operating temperature	°C	-5 ... 45
Mains frequency		50 Hz / 60 Hz
PSU input voltage	Vac	110 ... 230
Max PSU current input	mA	110
PSU input power Max	W	5.5

* Measurements made with: external modulator transmitter, 40km fiber, optical input power to the receiver of -0.6dBm