



## 1-output EDFA optical amplifier with WDM, 1RU rack 19" 1550 nm, Po 20 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 20 dBm. Based on EDFA (Erbium doped fiber) technology, it provides a high gain, a higher optical power and a low noise factor.

Equipped with WDM, it includes one 1310 nm/1490 nm-input that multiplexes the amplified 1550 nm-signal, providing one 1310 nm/1490 nm/1550 nm-output, making it suitable for video overlay distribution in medium size splitting GPON optical networks.

|                     |               |
|---------------------|---------------|
| <b>Ref.</b>         | 769630        |
| <b>Logical ref.</b> | OV1U20WDMA1   |
| <b>EAN13</b>        | 8424450224151 |

### Packaging info

|            |        |
|------------|--------|
| <b>Box</b> | 1 pcs. |
|------------|--------|

### Physical data

|                     |                       |
|---------------------|-----------------------|
| <b>Net weight</b>   | 3,660.00 g            |
| <b>Gross volume</b> | 29.30 dm <sup>3</sup> |
| <b>Gross weight</b> | 5,360.00 g            |
| <b>Width</b>        | 483.00 mm             |
| <b>Height</b>       | 44.00 mm              |
| <b>Depth</b>        | 376.00 mm             |
| <b>Main product</b> | 3,660.00 g            |

## weight

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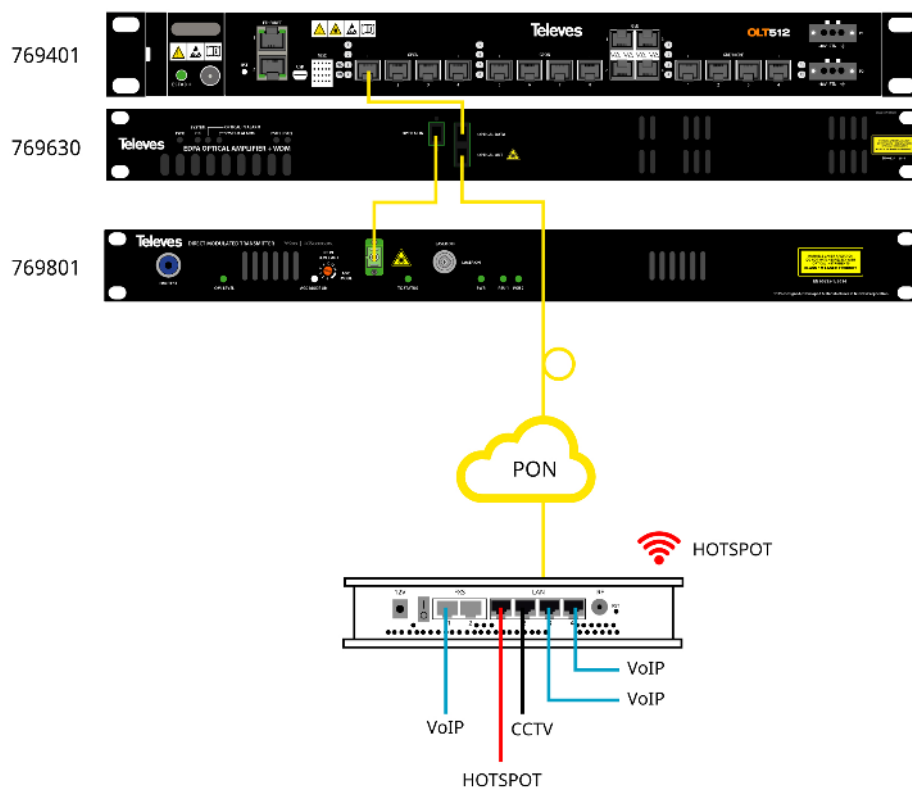
## Highlights

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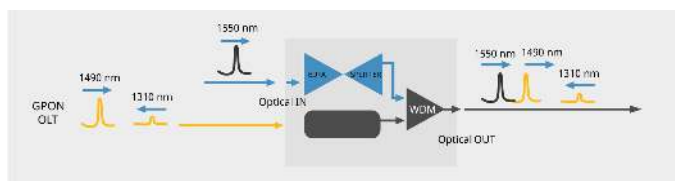
- High-optical output power amplifier
- Equipped with WDM for the multiplexing of RF Overlay with GPON signals
- -10 dBm to +10 dBm input range
- Status LED indicators
- High-efficiency power supply
- Hot swappable double power supply: subscriber service is not interrupted
- 1RU for rack 19"
- Extended range (99-253 VAC) power supply
- Suitable for medium/large size optical networks
- SC/APC optical connectors

## Application example

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## Graphic documentation



Block diagram

## Technical specifications : Ref. 769630

|                                          |     |               |
|------------------------------------------|-----|---------------|
| Number of input optical ports RF Overlay |     | 1             |
| Number of optical ports DATA (GPON)      |     | 1             |
| Number of output optical ports           |     | 1             |
| Wavelength (@RF Overlay)                 | nm  | 1540 ... 1560 |
| Upstream Wavelength (@Upstream)          | nm  | 1310          |
| GPON Wavelength (@Downstream)            | nm  | 1490          |
| Optical input power RF Overlay           | dBm | -10 ... 10    |
| Optical output power RF Overlay          | dBm | 20            |
| Noise figure                             | dB  | < 5,5         |
| Optical return losses                    | dB  | > 40          |
| GPON Insertion losses                    | dB  | < 1           |
| C/N                                      | dB  | 51            |
| CSO                                      | dB  | < -65         |
| CTB                                      | dB  | < -65         |
| Optical connectors                       |     | SC/APC        |
| Protection index (IP)                    |     | 20            |
| Operating temperature                    | °F  | 23 ... 113    |
| PSU input voltage                        | Vac | 110 ... 230   |
| Mains frequency                          |     | 50 Hz / 60 Hz |
| 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