


# SMATV optical transmitter with AGC (without return channel), 1550 nm, 5 dBm

It generates an optical signal in the 1550 nm band, modulated by the incoming SMATV RF signal (47...2400 MHz), with an optical output power of 5 dBm.

It incorporates automatic gain control (AGC), which maintains a constant optical output level even if the input RF signal varies due to reception fluctuations or channel load. This avoids the need for subsequent manual readjustments and preserves signal quality.

It is ideal for RFoG solutions and also as an RF Overlay transmitter in GPON networks.

| | |
|---|---|
| Ref. | 234305 |
| Logical ref. | UOS15504N |
| EAN13 | 8424450167038 |

| Packaging info | |
|---|---|
| Box | 1 pcs. |
| Bucket | 18 pcs. |

| Physical data | |
|---|---|
| Net weight | 1,100.00 g |
| Gross volume | 5.40 dm³ |
| Gross weight | 1,100.00 g |
| Width | 50.00 mm |
| Height | 219.00 mm |
| Depth | 183.00 mm |
| Main product weight | 848.00 g |

## Highlights

- SMATV-compatible: input bandwidth up to 2400 MHz
- Optical output level self-regulated via AGC
- OMI (Optical Modulation Index) test point

- LED indicators for optical power and AGC
- Input RF level control: optimisation of optical conversion quality parameters
- Wide range of input power levels
- Optical power drop alarm
- Very low equivalent noise conversion
- Easy to install and use
- High energy efficiency

# **Technical specifications** : Ref. 234305

| **Inputs** | | TERR | SAT |
|---|---|---|---|
| **Frequency range** | MHz | 47 ... 1200 | 950 ... 2400 |
| **Input level** | dBmV | 13 ... 33 | 3 ... 23 |
| **Flatness** | dB | -0.5 ... 0.5 | -2 ... 2 |
| **Gain adjustment range** | dB | 0 ... 14 | |
| **C/N** | dB | > 51 | |
| **CSO** | dB | > 60 | |
| **CTB** | dB | > 60 | |
| **Wavelength** | nm | 1550 | |
| **Optical output power** | dBm | 5 | |
| **Transmitter type** | | MQW-DFB | |
| **Optical connectors** | | SC/APC | |
| **RF connectors** | | "F" female | |
| **Impedance** | Ω | 75 | |
| **Powering** | Vdc | 12 ... 24 | |
| **Max. current** | mA | 270 | |
| **Operating temperature** | °F | 23 ... 113 | |