SMATV optical transmitter with AGC, 1RU 19"-rack, 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.	769801
Logical ref.	U19OS154
EAN13	8424450197738

Packaging info	
Box	1 pcs.

Physical data	
Net weight	2,210.00 g
Gross volume	29.30 dm³
Gross weight	2,852.00 g
Width	483.00 mm
Height	44.00 mm
Depth	200.00 mm
Main product weight	1,870.00 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
- Fits into a 19"-rack with a height of 1RU
- Optical power drop alarm
- Very low equivalent noise conversion
- Easy to install and use
- High energy efficiency

Technical specifications : Ref. 769801

Inputs/Bands		TERR	SAT
Frequency range	MHz	47 ... 1218	950 ... 2400
Input level	dBmV	15 ... 30	5 ... 20
Flatness	dB	-0.5 ... 0.5	-3 ... 3
Return losses	dB	> 10	> 7
Automatic gain range	dB	20	
Gain adjustment range	dB	0 ... 14	
C/N	dB	> 50	
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	
Input voltage	Vac	110 ... 230	
Mains frequency		50 Hz / 60 Hz	
Max. current	mA	100	
Max. power consumption	W	4.5	
Operating temperature	°F	23 ... 113	