

CATV optical transmitter with AGC (without return channel), 1550 nm, 10 dBm

It generates an optical signal in the 1550 nm window, modulated by the incoming CATV RF signal (47...1100 MHz), with an optical output power of 10 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. Furthermore, the laser's temperature control circuit stabilises the output wavelength, which is particularly important in DWDM environments.

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

Ref.	234811
Logical ref.	UOS155010AGC
EAN13	8424450177273

Packaging info	
Box	1 pcs.

Physical data	
Net weight	1,300.00 g
Gross volume	5.30 dm³
Gross weight	1,300.00 g
Width	50.00 mm
Height	219.00 mm
Depth	183.00 mm
Main product weight	922.00 g

Highlights

- MATV-compatible: bandwidth up to 1100 MHz

- Optical output level self-regulated via AGC
- OMI (Optical Modulation Index) test point
- LED indicators for optical power, laser temperature and AGC
- RF input level control: optimisation of optical conversion quality parameters
- Cooled MQW-DFB laser
- Wide range of input powers
- Optical power drop alarm
- Very low equivalent noise conversion
- Easy to install and use
- High energy efficiency

Technical specifications : Ref. 234811

Inputs		TERR
Frequency range	MHz	47 ... 1250
Input level	dBmV	15 ... 30
Flatness	dB	-1 ... 1
Return losses	dB	> 15
Automatic gain range	dB	15
Gain adjustment range	dB	0 ... 14
C/N	dB	> 50
CSO	dB	> 60
CTB	dB	> 60
Wavelength	nm	1550.12
Optical output power	dBm	10
Optical return losses	dB	> 50
Transmitter type		MQW-DFB
Optical connectors		SC/APC
RF connectors		"F" female
Impedance	Ω	75
Powering	Vdc	12 ... 24
Max. current	mA	400
Operating temperature	°F	23 ... 113