

# Micro Node RFoG LR 83 1310



## Product information



### **RFoG Benefits**

- Allows deployment of fiber optic access network while reusing existing RF and DOCSIS investments
- Increased bandwidth per subscriber due to better CNR performance
- Low maintenance of the network by reducing number of active equipment on the access network
- Ingress noise reduction through DOCSIS - based burst mode transmitters

### **Features:**

- Compact Node for RFoG Systems with 1310 nm
- In accordance with SCTE 174 2010
- Extremely low noise receiver
- Optical ALC
- Switching power supply
- Isolated FP laser for upstream communication
- Upstream test port

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Downstream	
Wavelength	1540 - 1560 nm
Opt. return loss	> 40 dB
Fiber	single mode 9/125 $\mu$ m
Optical connector	SC/APC
Output impedance	75 Ohm
Output return loss	$\geq$ 16 dB
Frequency range	85 - 1006 MHz
Output level (4% OMI, +1 to -8dBm)	75 dB $\mu$ V flat / 90 dB $\mu$ V with 3 dB slope (jumper configuration)
Output tilt 65 – 862MHz	3 dB
Operating optical input power	+1 to -8 dBm
Amplitude response	$\leq$ +/-1 dB
Equivalent noise input	max. 4 pA / $\sqrt$ Hz
Output level - CENELEC 42 Channel	90 dB $\mu$ V / 3 dB slope CSO $\geq$ 60 dB, CTB $\geq$ 60 dB
RF- connector	F-type
Optical input level low / high	LED red
Optical input level +1 to -8dBm	LED green
Upstream	
Laser	Isolated FP: 1310 nm
Transmitter turn-on/off time	< 800 ns
Optical Power	+3 dBm
RF input level	70 - 100 dB $\mu$ V
Amplitude response	$\leq$ +/-1 dB
RF bandwidth	5...65 MHz
Input return loss	$\geq$ 18 dB
Attenuator	0...30 dB
Test port	70 dB $\mu$ V @ 15% OMI
General	
Optical connector	SC/APC
Supply voltage	230 VAC
Power consumption	$\leq$ 6 W
Ambient temperature	-10°... +50°C
Dimension W x H x D	163 x 90 x 47 mm

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