

# Micro Node RFoG LR 83 W



## 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
- Compliant to SCTE ISP SP 910
- Extremely low noise receiver
- Optical ALC
- Switching power supply
- FP or DFB-laser for upstream communication
- WDM for xPON loop through

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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 (3,5% OMI, +1 to -8dBm)	80 / 90 dB $\mu$ V (Jumper)
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
Attenuator	Jumper 0 / 10 dB
RF- connector	F-type
Optical input level low / high	LED red
Optical input level +1 to -8dBm	LED green
Upstream	
Laser	DFB / FP: 1310 nm; CWDM: 1610 nm
Transmitter turn-on/off time	< 1 $\mu$ s
Optical Power	0 / 3 dBm
RF input level	70 - 100 dB $\mu$ V
Amplitude response	$\leq$ +/-1 dB
RF bandwidth	5...65 MHz
Attenuator	0...30 dB
Test port	-20 dB
General	
Optical connector	SC/APC
Supply voltage	230 VAC
Power consumption	$\leq$ 5 W
Ambient temperature	-10°... +50°C
Dimension W x H x D	163 x 90 x 47 mm

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