

# Micro Node RFoG LR 83 A



## 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
- Isolated FP-laser for upstream communication
- Upstream test port

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Downstream	
Wavelength	1540 ... 1563 nm
Optical input power	-6 ... +3 dBm
Optical return loss	> 40 dB
Transmission bandwidth	85 ... 1006 MHz
Output level	0 dB slope      80 dB $\mu$ V 4 dB slope      96 dB $\mu$ V
Output return loss	$\geq 16$ dB
Amplitude response	$\leq \pm 1$ dB
Equivalent noise input	typ. 4 pA / $\sqrt{\text{Hz}}$
Signal Performance 96 dB $\mu$ V / 4 dB slope	
CSO	$\geq 60$ dBc*
CTB	$\geq 65$ dBc*
CNR	$\geq 51$ dB*
MER	$\geq 40$ dB*
*measured @, 3,3% OMI, -6 dBm @ opt. Receiver channel load 36 analog and 60 QAM256 channels	
Optical input level low / high	LED red
Optical input level -6 ... +3 dBm	LED green
Upstream	
Laser	Isolated FP 1310 nm
Optical output power	3 dBm
Transmitter turn-on-/ off time	< 800 ns
Frequency range	5 ... 65 MHz
Input level	70 ... 100 dB $\mu$ V
Return loss	$\geq 18$ dB
Amplitude response	$\leq \pm 1$ dB
Attenuator (2 dB steps)	0 ... 30 dB
RF test port	70 dB $\mu$ V @ 15% OMI
General	
Optical connectors	SC/APC
Fiber	Single mode 9/125 $\mu$ m
RF connectors	F-type, 75 $\Omega$
Power supply	230 VAC, 50/60 Hz
Power consumption	$\leq 6$ W
Ambient temperature	-10 ... +50°C
Max. humidity non condensing	95 %
Dimensions (W x H x D)	163 x 90 x 47 mm

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