



Product Description:

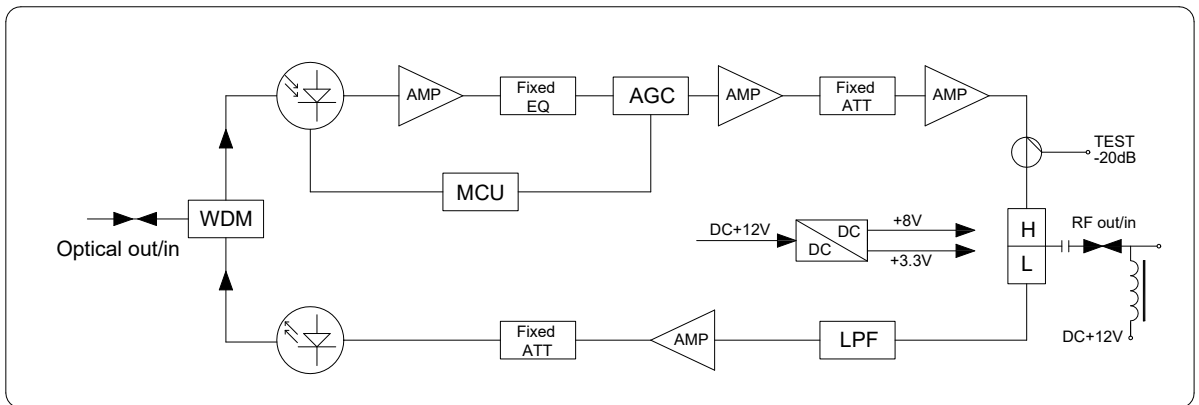
The RFoG Mini Node is a small home optical node specially developed for cable TV operators using the DOCSIS protocol standard, to provide users with two-way, interactive TV and network services. Compared with other two-way optical nodes, this series of products has the characteristics of small size, flexible networking and high cost performance.

FEATURES:

- 1) Designed for DOCSIS network
- 2) Forward 1260-1650nm input power: -9~+3dBm, forward AGC Range: -6~+2dBm
- 3) Forward frequency: 54~1002MHz, EQ 3±1.5dB, RF output level: 73dBuV

- 4) Reverse 1310nm output Power: 5mW
- 5) Reverse frequency: 5-42MHz, RF input level: 75-112dBuV
- 6) LED on the housing for forward optical power, reverse optical power and 1V/ mW forward optical power
- 7) With -20dB RF output test port
- 8) Power consumption <3W
- 9) Compact Aluminium cast housing, perfect heat dissipation
- 10) Fully Compatible with SCTE Standards

Block Diagram:



Characteristics:

No.	Item	Unit	Specification
Optical Specification			
1	Receiving Wavelength	nm	1260-1650
2	Transmitting Wavelength	nm	1310

Forward Optical Specification			
1	Wavelength	nm	1260-1650nm
2	Optical Power	dBm	- 9- + 3
3	Optical AGC Range	dBm	- 6- + 2
4	Optical LED		≥-9dBm Green LED on ≤-9dBm Red LED on
Forward RF Specification			
1	Bandwidth	MHz	54-1002
2	Flatness	dB	≤±1.5
3	Return Loss	dB	≤-14
4	Slope	dB	3±1.5
5	Output Level	dBmV	13±1.5 @130MHz
6	C/N	dB	≥48 @Pin=-5dBm
7	C/CTB	dB	≥65 @Pin=0dBm
8	C/CSO	dB	≥62 @Pin=0dBm
9	Output Impedance	Ω	75
Reverse Optical Specification			
1	Wavelength	nm	1310
2	Optical Output Power	mW	5±0.5mW
3	Laser Type		FP
4	Laser Operation Mode		Burst Mode
5	RF ON Threshold	dBmV	16±1.5
6	RF OFFThreshold	dBmV	5±1.5
7	Time Delay On	us	≤1.3
8	Time Delay Off	us	≤1.6

ReverseRF Specification			
1	Bandwidth	MHz	5—42
2	Flatness	dB	≤±1
3	Return Loss	dB	≤-14
5	Input Level Range	dBuV	75—112
6	NPR Dynamic Range	dB	20 (@NPR≥30dB)
Other Specification			
1	Input Voltage of Power Adaptor	VAC	100—240
2	Input Frequency of Power Adaptor	Hz	47—63
3	Cabel Length of Power Adaptor	cm	—
3	Input Voltage of Device	VDC	12
4	Power Consumption	W	< 3
5	Working Temperature	°C	-10—+50
6	Working Humidity	%RH	0—85
7	Fiber Connector		SC/APC
8	RF Connector		F-type imperial connector
9	Surge Protection	KV	4
10	Dimension (L*W*H)	mm	180×85×40