

Product Description:

The R-ONU Mini node is a small home optical node specially developed for cable TV operators for standard networking, which provides users with two-way, interactive TV and network services.

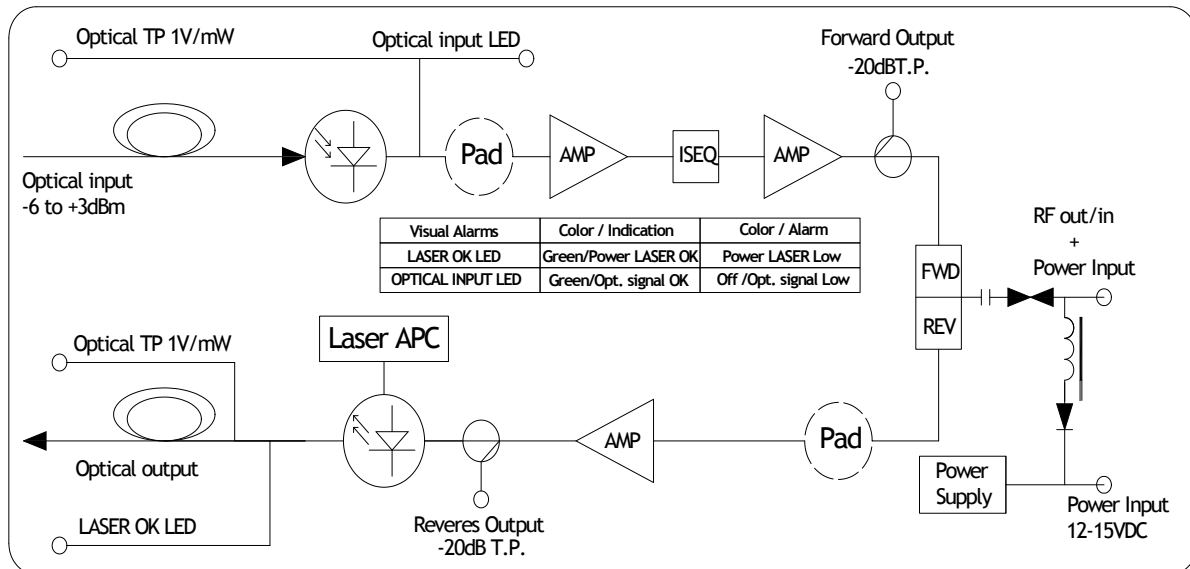
Compared with other two-way optical nodes, this series of products have the characteristics of small size, flexible networking and high performance-cost ratio.



Product Features:

- Forward reception is 1200-1600nm . Reverse emission wavelength is 1310nm
- Forward receiving optical power range: -6dBm — +2dBm
- Forward RF bandwidth is 54MHz—1002MHz, the output level is 25dBmV
- Light power of reverse emission is 1mW or 2mW
- Reverse RF bandwidth is 5MHz-42MHz, and the input level is 25dBmV
- On the upper surface of the shell, there are forward optical power and 1V/mW receiving optical power test points. Reverse optical power indicator and 1V/mW transmitting optical power test points
- - 20dB RF output monitoring ports in the up and down lines
- Low power consumption design, especially for the whole machine
- Adopting aluminum die-casting shell. Small size and exquisite. Good heat dissipation.

Block Diagram:



Specification:

General Specifications			
Parameter	Units	Up-Stream	Down-Stream
Impedance	Ω	75	
Laser type	-	Class 3B	-
RF test point	dB	-20 ± 2	
Optical monitor	V	1 ± 0.2	
Power Supply	V /mW	12 to 15	
Current consumption (v=+12V)	mA	340	
Storage temperature	$^{\circ}\text{C}$	-40 to $+80$	
Operate temperature	$^{\circ}\text{C}$	-25 to $+65$	
Dimension	mm	127 x 80 x 32	
Weight	g	340	

RF Specifications			
Parameter	Units	Up-Stream	Down-Stream
Frequency range	MHz	5-42	54-870
Flatness	dB	± 0.75	± 1.0
Return loss	dB	16	15
Input level	dBmV	25	-
Output level	dBmV	-	25 ¹
CNR	dBc	48	51 ¹
CTB	dBc	46 ²	62 ¹
CSO	dBc	60 ²	60 ¹

1. Optical input -1dBm, 59 channels/8MHz, +200MHz (550 -750MHz) digital signal at 6dB below video carrier.

2. CATV return path, 2 tones (13MHz, 19MHz), OMI=20%, 2mW

Optical Specifications			
Parameter	Units	Up-Stream	Down-Stream
Wavelength	nm	1310 $\pm$ 20	1200 to 1600
Optical power Output	mW	1 or 2	-
Optical power Input	dBm	-	-6 to +3
Optical type	-	PF or DFB	InGaAs PIN
Return loss	dB	35	45
Isolation	dB	30	-
Connector	-	SC/APC	SC/APC
Status led		Green Laser ok	Green Pin>-6dBm