



GWR1200 Universal Optical Node

GWR1200 Optical Node has outdoor die-cast aluminum housing outputting forward path analog TV, DVB-C and CMTS DS signals and sending upstream cable modem signals at regular or burst mode over the single Bi-directional fiber or the 2nd fiber. The forward path RF output can be 110dB μ V/106 dB μ V, single port or dual ports, 1005MHz or 1218MHz forward path bandwidth. GWR1200 can support DOCSIS2.0, DOCSIS3.0 or DOCSIS3.1.



Features:

- Aluminum Die Cast Outdoor Housing
- Two fibers or Single fiber bi-directional optical transmission
- 1005MHz or 1218MHz forward path RF bandwidth
- Single 110dB μ V or dual 106 dB μ V Forward RF outputs
- Forward Path 15dB Slop and 15dB attenuator
- AGC effective at -5dBm~+1dBm optical input
- 5~85MHz/204MHz return RF bandwidth option
- Up to 16 CWDM DFB laser wavelength working at burst mode
- 4KV Surge Protection
- 60V or 220V power supply

Specifications

Item	Parameter
Forward Path Receiver	
Forward RF Optical Wavelength	1540~1560 nm
Working Optical Input Power	-7dBm ~ +2dBm



Optical AGC range	-5dBm ~ +1dBm
Forward Optical Power Test Point	1V/mW
Fiber Input Connector	SC/APC
Optical Return Loss	50 dB
RF Output Ports	1 or 2
RF Output Level	110 dB μ V (single output) or 106dBuV (dual splitter outputs)
RF Diplexer	85/110MHz or 204/258MHz
RF Slop	0~15dB adjustable
RF Attenuator	0~15dB adjustable
RF Connector	American F
RF Output Impedance	75 Ω
Surge Protection at RF port	4KV
RF Flatness	± 1.5 dB (0dB Slop or after 15dB slop cable)
RF Return Loss	>16 dB
CNR	>45 dB @ -5dBm
CSO	<-60 dBc @77ch NTSC@0dBm
CTB	<-60 dBc @77ch NTSC@0dBm
Return Path Transmitter	
Return Path Laser Wavelength	1270nm, 1290nm, 1310nm, 1330nm, 1350nm, 1370nm, 1390nm, 1410nm, 1430nm, 1450nm, 1470nm, 1490nm, 1510nm, 1530nm, 1590nm, 1610nm
Optical Output Power	3 $\pm$ 1 dBm
Laser Power Test Point	1V/mW
Optical Indicator ON	>-3dBm
Return Path Laser off power	<-30dBm
Return Laser Rise/Fall Time	<1.5 μ s as defined by SCTE-174-2010
Return RF Bandwidth	5~85MHz/204MHz (5~30MHz filter on request)
Return RF Input Level	17dBmV
Return RF Return Loss	16dB
Return RF Flatness	± 0.75 dB
Environment	
Working Temperature	-20 ~ +55 $^{\circ}$ C
Storage Temperature	-40 ~ +85 $^{\circ}$ C
Power Supply	60V or 220V AC
Power Consumption	18W
Dimension (L*W*H)	173mm $\times$ 149mm $\times$ 41mm
Weight	3Kg

Ordering Information

GWR1200-ABCDEFGH Fiber to the Building two-way optical Node

A (RF Output Port): 1_1 RF output, 2_2 Splitter RF outputs

B (Forward Bandwidth): 1_1005MHz, 2_1218MHz



C (Frequency Duplexer): 0_No return path, 1_85/110MHz, 2_204/258MHz

D (Fiber Port): 1_Single fiber bi-direction 2_2 separate fibers

E (Burst Mode): 1_No Burst Mode, 2_Burst Mode

F (CWDM wavelength): 29_1290nm, 31_1310nm, 33_1330nm, 35_1350nm, 37_1370nm
39_1390nm, 41_1410nm, 43_1430nm, 45_1450nm, 47_1470nm
49_1490nm, 61_1610nm

G (Power Supply) 60_60V AC, 220_220V AC