

GFH2009 RFoG MicroNode

GFH2009 RFoG MicroNode is designed to receive 1550nm TV RF optical signal from Passive Optical Network (PON) and send upstream cable modem signals at 1590nm or 1610nm optical wavelength while passing the 1310nm and 1490nm digital signals to ONU device. GFH2009 supports the return RF signal burst mode transmission. GFH2009 outputs bi-directional interactive RF services.



Feature:

High Linearity Photodiode for CATV RF
 Uncooled CWDM coaxial DFB laser with isolator for return RF
 5~42 (upstream) /54~1000MHz (downstream) RF Bandwidth
 GPON, GEAPON, BPON compatible

Specifications

Item	Parameter
Forward Path Receiver	
Input Optical Wavelength	1000~1600 nm
Working Optical Power	+2 ~ -8 dBm
Optical Connector	SC/APC
Optical Return Loss	55 dB
RF Bandwidth	54 ~ 1000 MHz
RF Connector	American F
RF Output Impedance	75Ω
RF Output Level	20dBmV @ -5dBm input optical Power
RF Flatness	± 0.75dB
RF Return Loss	>16 dB
CNR	>47 dBc @ -5dBm input optical power
CSO	<-70 dBc @77ch NTSC
CTB	<-70 dBc @77ch NTSC

Return Path Transmitter	
Return Path Laser Wavelength	1590nm or 1610nm
Optical Output Power	+2dBm (Typical)
Optical Return Loss	55dB
Return RF Bandwidth	5~42MHz
Return RF Level	15dBmV
Output to ONU	
Loss at 1310nm/1490nm	<2dB
Output Connector	SC/APC
Optical Return Loss	55dB
Environment	
Power Supply	12 V DC
Power Consumption	< 5.0W
Working Temperature	-10 ~ +70°C
Dimension (L*W*H)	138mm×73mm×28mm
Weight	0.7 Kg (not including power adapter)

Ordering Information

GFH2009-A-B-X RF on Glass MicroNode

A(return path output power): 10_1.0mW, 15_1.5mW

B(return laser type): 59_1590nm DFB Laser with isolator,
61_1610nm DFB laser with isolator