

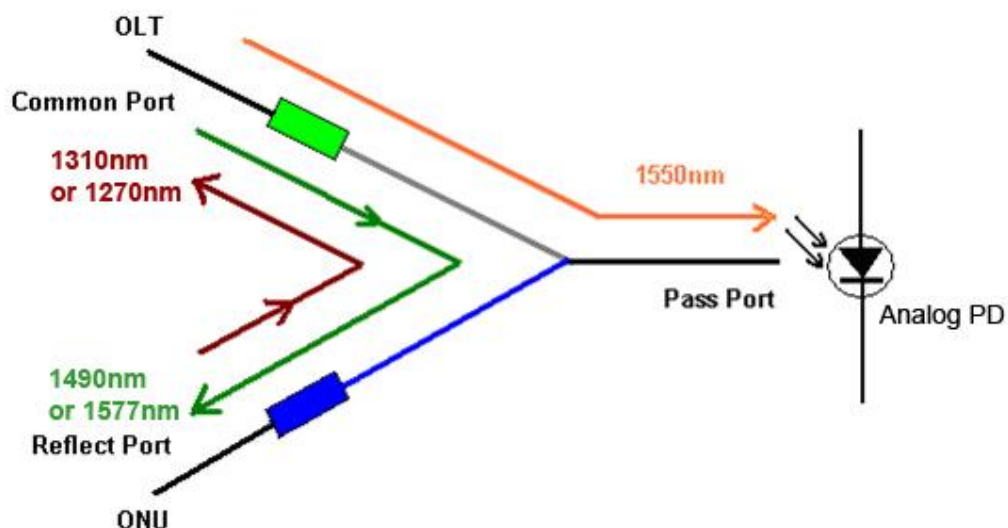
## GFH1000-KP Powerless Optical Receiver with WDM

GFH1000-KP Powerless Optical Receiver is a passive optical receiver with 1310nm/1490nm GPON WDM (upgradable to 1270nm/1577nm supporting XGPON ONU), receiving 1550nm analog TV and QAM RF optical signal from Passive Optical Network (PON) while passing 1310nm/1490nm or 1270nm/1577nm digital signals to ONU device. GFH1000-KP can enable Greatway ONU or any third party ONU with RF function for broadcasting RF channels.



### Feature:

- Compact plastic flame retarding housing
- High Linearity Photodiode for CATV RF
- 45~1000MHz (downstream) RF Output
- No DC power Passive economy design
- 1310nm/1490nm Optical Bypass Port to ONU
- WDM can be upgraded to include 1270nm/1577nm reflection port for XGPON ONU



## Specifications

Item		Parameter	
Input CATV Optical Wavelength		1540~1560 nm	
Reflecting Channel Wavelength		1260nm~1360nm and 1480nm~1500nm	
Working Optical Power		-10dBm ~ +2dBm	
Optical Connector		SC/APC	
Optical Return Loss		45 dB	
RF Bandwidth		45 ~ 1000 MHz	
RF Connector		American F	
RF Output Impedance		75Ω	
RF Flatness		± 3.0dB (45~1000MHz)	
RF Performance	Optical Input	RF Output	MER(dB) (QAM64)
	+2dBm	68dBuv	33.5
	+1dBm	66dBuv	34.1
	+0dBm	64dBuv	34.9
	-1dBm	62dBuv	34.7
	-2dBm	60dBuv	34.7
	-3dBm	58dBuv	33.5
	-4dBm	56dBuv	31.1
	-5dBm	54dBuv	28.9
	-6dBm	52dBuv	27.5
	-7dBm	50dBuv	25.6
-8dBm	48dBuv	24	
Output to ONU			
Loss at 1310nm/1490nm		<0.8dB	
Isolation (Com-Pass at 1310nm)		> 35dB	
Isolation (Com-Pass at 1490nm)		> 35dB	
Isolation (Com-Reflect at 1550nm)		> 18dB	
Output Connector		SC/APC	
Optical Return Loss		>45dB	
Environment			
Power Supply		No	
Power Consumption		0W	
Working Temperature		-10 ~ +50°C	
Board Dimension (L*W*H)		106mm×62mm×25mm	
Weight (without power adapter)		100g	

## Ordering Information

GFH1000-KP FTTH CATV RF Passive Optical Receiver with WDM

X(WDM Option): None\_GPON WDM only, X\_ both GPON and XGPON WDM