

2CH WDM GPON 1310/1490nm And XGS-PON 1270/1577nm Plug-in LGX Box 215*150*20MM FW-2G-LGX02U-GX



With the rapid development of emerging technologies such as 5G and the Internet of Things, the demand for bandwidth is continuously increasing. To meet these demands, Passive Optical Network (PON) technologies are also evolving. GPON and XGS-PON, are the main PON technologies currently in use, and they have achieved coexistence on the same fiber through Wavelength Division Multiplexing (WDM) technology, thereby enhancing the network's bandwidth and flexibility.

GPON (Gigabit-Capable Passive Optical Network)

Features: GPON supports downstream rates of 2.5Gbps and upstream rates of 1.25Gbps, with split ratios ranging from 1:16 to 1:128. It uses WDM technology to simultaneously transmit video, data, and voice over the same fiber.

Application Scenarios: It is widely used in home broadband access, enterprise networks, and smart cities.

XGS-PON (10G Symmetric PON)

Features: XGS-PON supports symmetrical 10Gbps uplink and downlink rates, with split ratios ranging from 1:16 to 1:256. It uses Time and Wavelength Division Multiplexing (TWDM) technology to coexist with GPON on the same fiber.

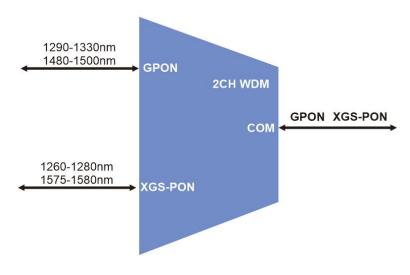
Application Scenarios: It is suitable for scenarios that require high-bandwidth symmetrical transmission, such as enterprise networks, data center interconnection, and 5G fronthaul.

Advantages



- Bandwidth Increase: By adding wavelength channels, the transmission bandwidth of the fiber is significantly increased.
- Cost-Effective: It increases network capacity without adding extra fibers, reducing deployment costs.
- ◆ Flexibility: It supports the coexistence of multiple PON technologies, such as GPON, XGS-PON.

Application



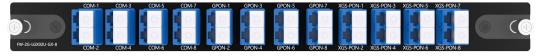
Product Panel



2CH WDM GPON And XGS-PON SC/UPC Plug-in LGX Box 215*150*20MM



3X2CH WDM GPON And XGS-PON SC/UPC Plug-in LGX Box 215*150*20MM



8X2CH WDM GPON and XGS-PON LC/UPC Plug-in LGX Box 215*150*20MM

Specifications

Parameter		Specification	Unit
Bandpass	GPON	1290-1330/1480-1550	nm
	XGS-PON	1260-1280/1575-1580	nm
Insertion Loss	COM - GPON	<0.9	dB
	COM - XGS-PON	<1.1	dB



COM - GPON	>30	dB
COM - XGS-PON	>30	dB
ifomit	<0.8	dB
ırn Loss	>55	dB
ectivity	>55	dB
n Dependant Loss)	<0.3	dB
Mode Dispersion)	<0.2	PS
wer Handing	<300	mW
Temperature	-40 to +85	°C
elative Humidity	5 to 90	% RH
	-40 to +85	°C
elative Humidity	5 to 90	% RH
\\/_:h.t	LGX Box: 0.5KG	KG
vveignt	2slot 1U Rack: 2.5KG	
onoiono	LGX Box: 215*150*20mm	mm
EUSIOUS	1U Rack : 440*160*44mm	
	COM - XGS-PON ifomit urn Loss ectivity in Dependant Loss) Mode Dispersion) ower Handing Temperature elative Humidity emperature	COM - XGS-PON >30 ifomit

Insertion Loss includes WDL, TDL and PDL WITH two sets of mated connectors at both ends.

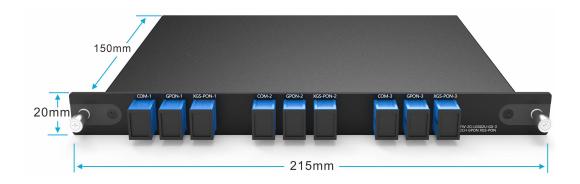
Package Information

LGX BOX Plug in 4-Slot 1U Rack

2CH WDM

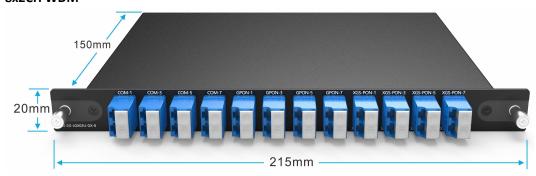


3x2CH WDM

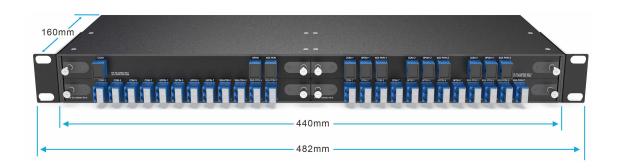




8x2CH WDM



4-Slot 1U Rack for LGX BOX



Order Information

Product No.	Product description	
FW-2G-LGX02U-GX-1	2CH WDM GPON And XGS-PON SC/UPC Plug-in LGX Box 215*150*20MM	
FW-2G-LGX02U-GX-3	3x2CH WDM GPON And XGS-PON SC/UPC Plug-in LGX Box 215*150*20MM	
FW-2G-LGX01U-GX-8	8x2CH WDM GPON And XGS-PON LC/UPC Plug-in LGX Box 215*150*20MM	
1U02-4LGX	19" inch 1U rack with 4 slot for Plug-in LGX box, 440*160*44mm	

Note: We Support Customized Design, please contact us by email.