

3CH WDM GPON XGS-PON And OTDR Plug-in LGX Box 215*150*20MM FW-2G-LGX02-GXO



With the rapid development of emerging technologies such as 5G, the Internet of Things, and cloud computing, 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, while OTDR (Optical Time Domain Reflectometer) is a tool used for network fault diagnosis and maintenance. Through 3CH WDM (Four-Channel Wavelength Division Multiplexing) technology, these technologies can coexist on the same fiber, 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.

OTDR (Optical Time Domain Reflectometer)

Features: OTDR is a tool used for fiber optic network fault diagnosis and maintenance, capable of detecting breaks, losses, and reflection points in the fiber.

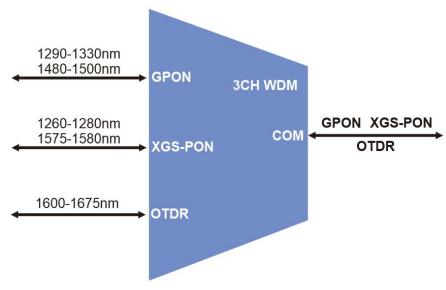


Application Scenarios: It is widely used in the installation, maintenance, and troubleshooting of fiber optic networks.

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, OTDR

Application



Product Panel



3CH WDM GPON XGS-PON And OTDR, PON SC/UPC , COM AND OTDR SC/APC Plug-in LGX Box 215*150*20MM



3X3CH WDM GPON XGS-PON And OTDR, PON SC/UPC , COM AND OTDR SC/APC Plug-in LGX Box 215*150*20MM



6X3CH WDM GPON XGS-PON And OTDR, PON LC/UPC, COM AND OTDR LC/APC Plug-in LGX



Box 215*150*20MM

Specifications

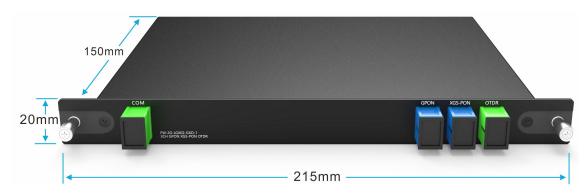
Parameter		Specification	Unit
Bandpass	GPON	1290-1330/1480-1550	nm
	XGS-PON	1260-1280/1575-1580	nm
	OTDR	1600-1675	nm
Insertion Loss	COM - GPON	<0.9	dB
	COM - XGS-PON	<1.1	dB
	COM - OTDR	<1.3	dB
Wavelength Isolations	COM - GPON	>30	dB
	COM - XGS-PON	>30	dB
	COM - OTDR	>30	dB
Unifomit		<0.8	dB
Return Loss		>55	dB
Directivity		>55	dB
PDL (Polarizarion Dependant Loss)		<0.3	dB
(Polarization Mode Dispersion)		<0.2	PS
Optical Power Handing		<300	mW
Operating Temperature		-40 to +85	°C
Operating Relative Humidity		5 to 90	% RH
Storage Temperature		-40 to +85	°C
Operating Relative Humidity		5 to 90	% RH
Net Weight		LGX Box: 0.5KG	KG
		2slot 1U Rack: 2.5KG	
Dimensions		LGX Box: 215*150*20mm	mm
		1U Rack : 440*160*44mm	

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

Package Information

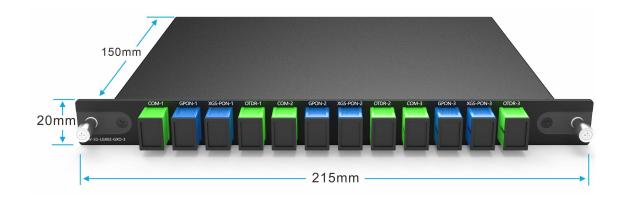
LGX BOX Plug in 4-Slot 1U Rack

3CH WDM

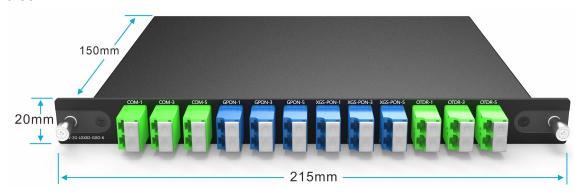




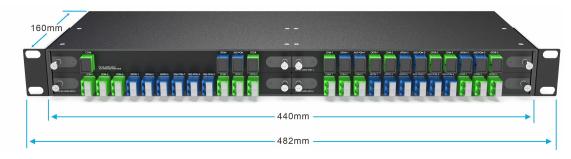
3x3CH WDM



6x3CH WDM



4-Slot 1U Rack for LGX BOX



Order Information

Product No.	Product description		
FW-2G-LGX02-GXO-1	3CH WDM GPON XGS-PON AND OTDR, PON SC/UPC, COM AND OTDR SC/APC		
	Plug-in LGX Box 215*150*20MM		
FW-2G-LGX02-GXO-3	3x3CH WDM GPON XGS-PON AND OTDR, PON SC/UPC, COM AND OTDR SC/APC		
	Plug-in LGX Box 215*150*20MM		
FW-2G-LGX01-GXO-6	6x3CH WDM GPON XGS-PON AND OTDR, PON LC/UPC, COM AND OTDR LC/APC		
	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.