

PLC

Fiberwdm's PLC are developed based on unique silica glass waveguide process with reliable precision aligned fiber pigtail in a miniature package, it provides a low cost light distribution solution with small form factor and high reliability. The PLC devices have high performance in terms of low insertion loss, low PDL, high return loss and excellent uniformity over a wide wavelength range from 1260nm to 1620nm and working in temperature from -40°C to +85°C. The PLC devices have standard configurations of 1*4, 1*8, 1*16 and 1*32 configurations, as well as customized structures of 2*8, 2*16, 2*32 and 2*64

Product



1*2 PLC SC/APC Plug-in LGX Box 215*150*20MM



1*4 PLC SC/APC Plug-in LGX Box 215*150*20MM



1*8 PLC SC/APC Plug-in LGX Box 215*150*20MM



1*16 PLC LC/APC Plug-in LGX Box 215*150*20MM



2*2 PLC SC/APC Plug-in LGX Box 215*150*20MM



2*4 PLC SC/APC Plug-in LGX Box 215*150*20MM



2*8 PLC SC/APC Plug-in LGX Box 215*150*20MM



2*16 PLC LC/APC Plug-in LGX Box 215*150*20MM

Features:

- ◆ Compact design
- ◆ Low insertion loss and low PDL
- ◆ High reliability
- ◆ High channel counts
- ◆ Wide wavelength range
- ◆ Large operating temperature range
- ◆ Customized packaging and configuration

Applications

- ◆ FTTx Systems
- ◆ LAN, WAN and Metro Networks
- ◆ Analog/Digital Passive Optical Networks
- ◆ CATV Networks
- ◆ Other applications in fiber optic systems

Compliance

- ◆ Telcordia GR-1209-CORE
- ◆ Telcordia GR-1221-CORE

1*N PLC Specifications

Port Configuration		1×2	1×4	1×8	1×16
Fiber Type		SMF-28e or customer specified			
Operating Wavelength (nm)		1260 ~ 1650			
Insertion Loss	Typical	3.7	6.8	10.0	13.0
	Max	4.0	7.2	10.5	13.5
Loss Uniformity (dB)	Max	0.4	0.6	0.8	1.2
Return Loss (dB)	Min	50	50	50	50
Polarization Dependent Loss(dB)	Max	0.2	0.2	0.3	0.3
Directivity (dB)	Min	55	55	55	55
Wavelength Dependent Loss(dB)	Max	0.3	0.3	0.3	0.5
Temperature Dependent Loss (-40 ~ 85°C) (dB)	Max	0.5	0.5	0.5	0.8
Operating Temperature (°C)		-40~85			
Storage Temperature (°C)		-40~85			
LGX Box Packaging Size (mm)		215*150*20MM			
19" Rack mount Package(mm)		1U, 440*160*44			

Notes: 1.Specifications without fiber connectors.
2.Room temperature test .

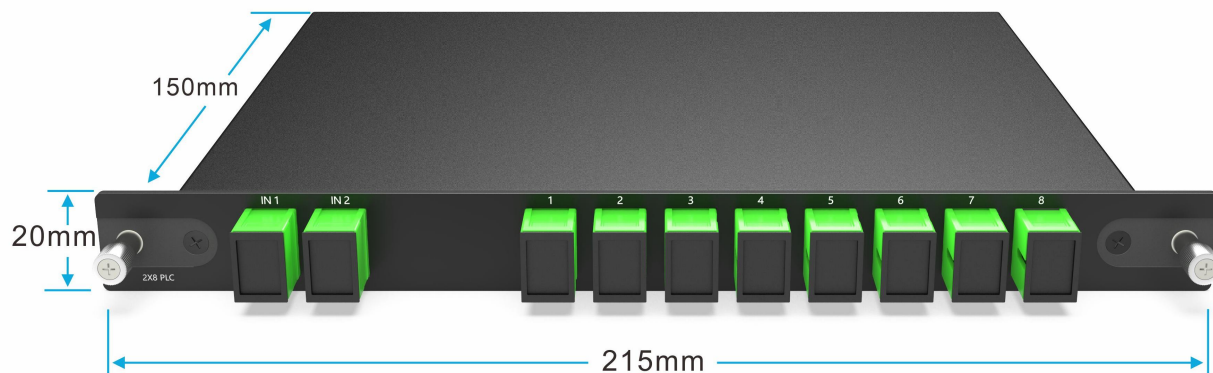
2*N PLC Specifications

Port Configuration		2×2	2×4	2×8	2×16
Fiber Type		SMF-28e or customer specified			
Operating Wavelength (nm)		1260 ~ 1650			
Insertion Loss	Typical	3.8	7.4	10.8	14.2
	Max	4.2	7.8	11.2	14.6
Loss Uniformity (dB)	Max	1.0	1.4	1.5	2.0
Return Loss (dB)	Min	50	50	50	50
Polarization Dependent Loss(dB)	Max	0.2	0.2	0.4	0.4
Directivity (dB)	Min	55	55	55	55
Wavelength Dependent Loss(dB)	Max	0.8	0.8	0.8	0.8
Temperature Dependent Loss (-40 ~ 85°C) (dB)	Max	0.5	0.5	0.5	0.8
Operating Temperature (°C)		-40~85			
Storage Temperature (°C)		-40~85			
Packaging Size (mm)		215*150*20MM			
19" Rack mount Package (mm)		1U, 440*160*44			

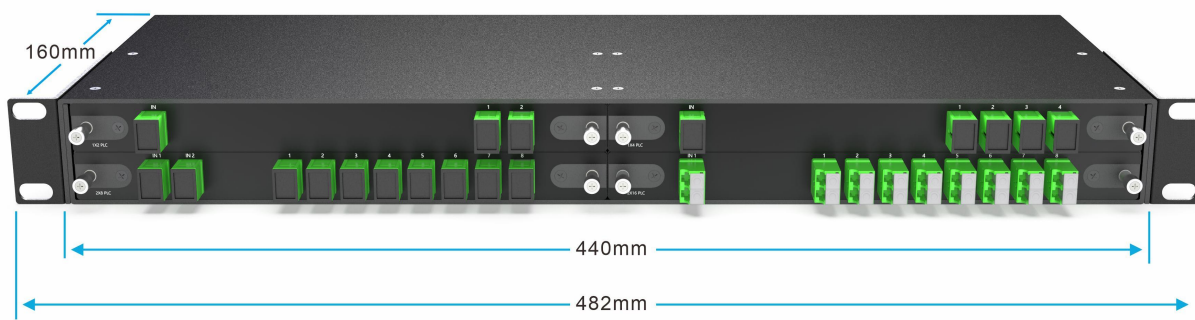
Notes: 1.Specifications without fiber connectors.

2.Room temperature test .

Package (mm)



PLC Plug-in LGX Box 215*150*20MM



4-Slot 1U Rack for LGX BOX

Order Information

Part No.	Specifications
1P2-LGX02A	1x2 PLC SC/APC Plug-in LGX Box 215*150*20MM
1P4-LGX02A	1x4 PLC SC/APC Plug-in LGX Box 215*150*20MM
1P8-LGX02A	1x8 PLC SC/APC Plug-in LGX Box 215*150*20MM
1P16-LGX01A	1x16 PLC LC/APC Plug-in LGX Box 215*150*20MM
2P2-LGX02A	2x2 PLC SC/APC Plug-in LGX Box 215*150*20MM
2P4-LGX02A	2x4 PLC SC/APC Plug-in LGX Box 215*150*20MM
2P8-LGX02A	2x8 PLC SC/APC Plug-in LGX Box 215*150*20MM
2P16-LGX01A	2x16 PLC 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