

PLC 1U Rack

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 1U Rack



1*4 PLC SC/APC 1U Rack



1*8 PLC SC/APC 1U Rack



1*16 PLC SC/APC 1U Rack



1*32 PLC SC/APC 1U Rack



1*64 PLC LC/APC 1U Rack



2*2 PLC SC/APC 1U Rack



2*4 PLC SC/APC 1U Rack



2*8 PLC SC/APC 1U Rack



2*16 PLC SC/APC 1U Rack



2*32 PLC SC/APC 1U Rack



2*64 PLC LC/APC 1U Rack

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	1×32	1×64
Fiber Type		SMF-28e or customer specified					
Operating Wavelength (nm)		1260 ~ 1650					
Insertion Loss	Typical	3.7	6.8	10.0	13.0	16.0	19.5
	Max	4.0	7.2	10.5	13.5	16.9	21.0
Loss Uniformity (dB)	Max	0.4	0.6	0.8	1.2	1.5	2.5
Return Loss (dB)	Min	50	50	50	50	50	50
Polarization Dependent Loss(dB)	Max	0.2	0.2	0.3	0.3	0.3	0.4
Directivity (dB)	Min	55	55	55	55	55	55
Wavelength Dependent Loss(dB)	Max	0.3	0.3	0.3	0.5	0.5	0.8
Temperature Dependent Loss (-40 ~ 85°C) (dB)	Max	0.5	0.5	0.5	0.8	0.8	1.0
Operating Temperature (°C)		-40~85					
Storage Temperature (°C)		-40~85					
Packaging Size (mm)		40×4×4	40×4×4	40×4×4	40×4×4	50×7×4	60×12×4
19" Rack mount Package(mm)		1U, 440*200*44					

Notes: 1.Specifications without fiber connectors.

2.Room temperature test .

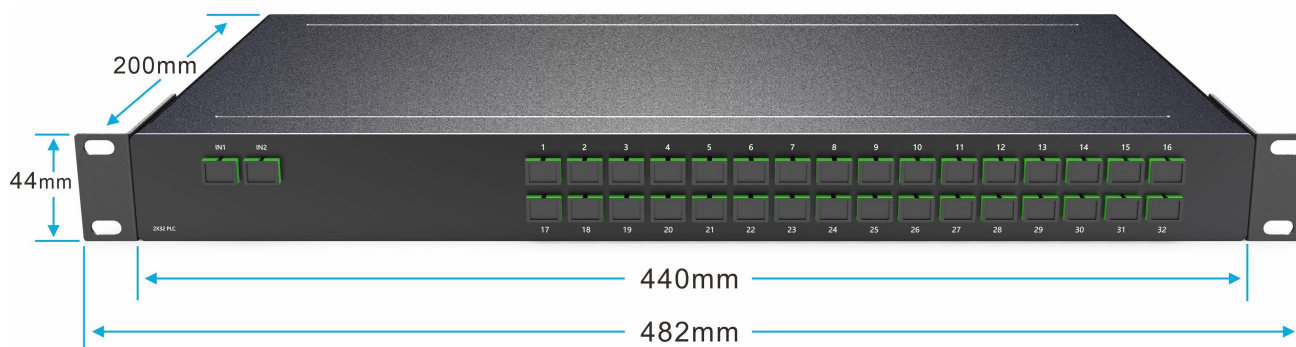
2*N PLC Specifications

Port Configuration		2×2	2×4	2×8	2×16	2×32	2×64
Fiber Type		SMF-28e or customer specified					
Operating Wavelength (nm)		1260 ~ 1650					
Insertion Loss	Typical	3.8	7.4	10.8	14.2	17.0	21.0
	Max	4.2	7.8	11.2	14.6	17.5	21.5
Loss Uniformity (dB)	Max	1.0	1.4	1.5	2.0	2.5	2.5
Return Loss (dB)	Min	50	50	50	50	50	50
Polarization Dependent Loss(dB)	Max	0.2	0.2	0.4	0.4	0.4	0.5
Directivity (dB)	Min	55	55	55	55	55	55
Wavelength Dependent Loss(dB)	Max	0.8	0.8	0.8	0.8	0.8	1.0
Temperature Dependent Loss (-40 ~ 85°C) (dB)	Max	0.5	0.5	0.5	0.8	0.8	1.0
Operating Temperature (°C)		-40~85					
Storage Temperature (°C)		-40~85					

Packaging Size (mm)	40×4×4	40×4×4	50×4×4	50×7×4	60×7×4	
19" Rack mount Package (mm)	1U, 440*200*44					

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

Package (mm)



Order Information

Part No.	Specifications
1P2-1U02A	1x2 PLC SC/APC 1U Rack 440*200*44mm
1P4-1U02A	1x4 PLC SC/APC 1U Rack 440*200*44mm
1P8-1U02A	1x8 PLC SC/APC 1U Rack 440*200*44mm
1P16-1U02A	1x16 PLC SC/APC 1U Rack 440*200*44mm
1P32-1U02A	1x32 PLC SC/APC 1U Rack 440*200*44mm
1P64-1U01A	1x64 PLC LC/APC 1U Rack 440*200*44mm
2P2-1U02A	2x2 PLC SC/APC 1U Rack 440*200*44mm
2P4-1U02A	2x4 PLC SC/APC 1U Rack 440*200*44mm
2P8-1U02A	2x8 PLC SC/APC 1U Rack 440*200*44mm
2P16-1U02A	2x16 PLC SC/APC 1U Rack 440*200*44mm
2P32-1U02A	2x32 PLC SC/APC 1U Rack 440*200*44mm
2P64-1U01A	2x64 PLC LC/APC 1U Rack 440*200*44mm