

## Rack Mount PLC Splitter

### Description

The Gigalight rack mount PLC (Planar Lightwave Circuit) splitter is a type of optical power management device with 19-inch 1U rack mount package fabricated using silica optical waveguide technology. It is widely used in PON/ODN networks to realize optical signal power splitting with 1xN or 2xN splitting ratio. Gigalight provides a series of customized rack mount PLC splitters to meet different requirements on port configuration, input connector, and output connector.

### Features

- ✓ Low Insertion Loss (IL)
- ✓ High isolation
- ✓ Low Polarization Dependent Loss (PDL)
- ✓ Compact design with adapters
- ✓ Wide operating wavelength range
- ✓ Good channel-to-channel uniformity
- ✓ High reliability and high stability
- ✓ Telcordia GR-1209-CORE-2001 compliant
- ✓ Telcordia GR-1221-CORE-1999 compliant
- ✓ YD/T-1272Q compliant
- ✓ Q/CT-2295 compliant
- ✓ RoHS-6 compliant (lead free)



### Applications

- ✓ FTTH systems
- ✓ PON networks
- ✓ Optical fiber sensing systems
- ✓ Aerospace and military applications

### Specifications

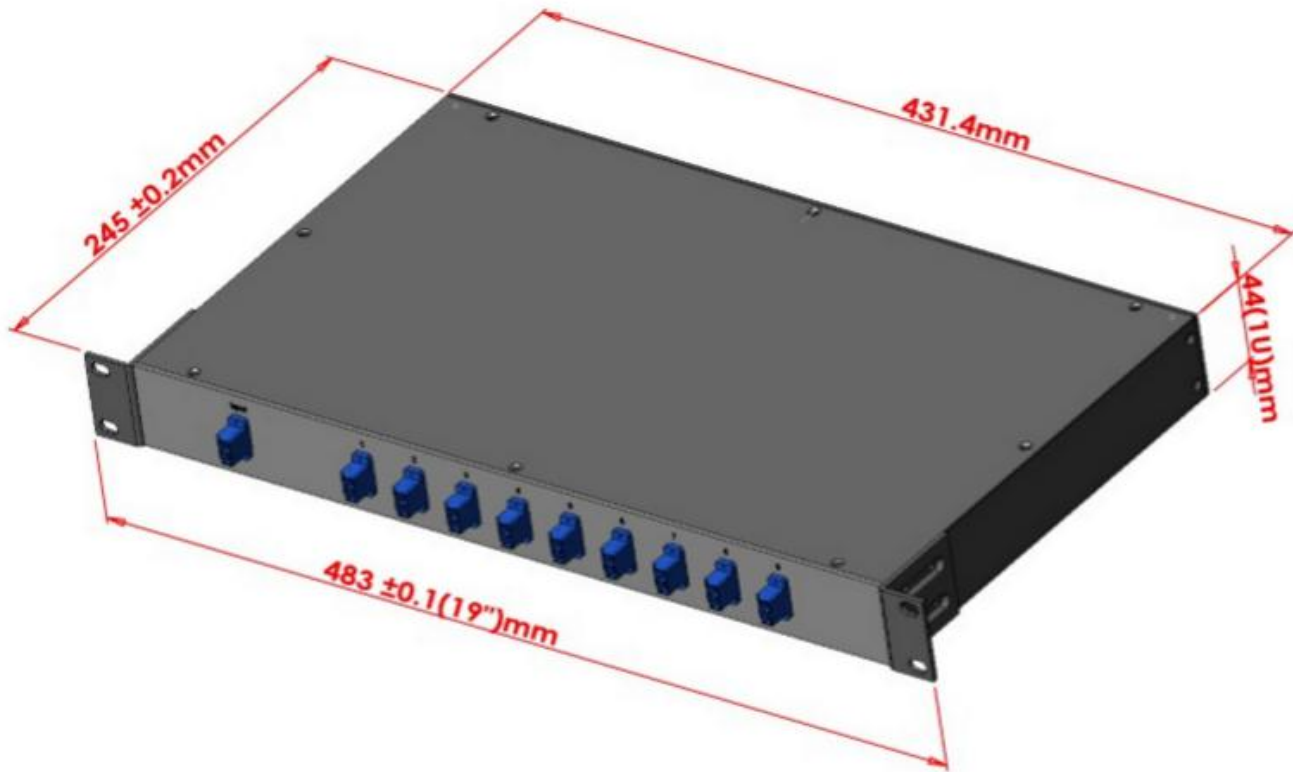
Parameters	1×N Rack Mount PLC Splitters					
Operating Wavelength (nm)	1260 ~ 1650					
Port Configuration	1×2	1×4	1×8	1×16	1×32	1×64
Max Insertion Loss (dB) (P/S Grade)	4.1/4.3	7.4/7.6	10.5/10.8	13.8/14.0	16.8/17.2	20.8/21.3
Max Loss Uniformity (dB)	0.6	0.7	0.8	1.2	1.5	2.0
Max PDL (dB)	0.2			0.25		0.35
Min Return Loss (dB)	55					
Min Directivity (dB)	55					
Max Wavelength Dependent Loss (dB)	0.5			0.8		1.0
Max Temperature Stability (dB)	0.5					
Operating Temperature (°C)	-40 ~ 85					
Storage Temperature (°C)	-40 ~ 85					
Device Dimension L×W×H (mm)	483×150×45					

Parameters	2×N Rack Mount PLC Splitters					
Operating Wavelength (nm)	1260 ~ 1650					
Port Configuration	2×2	2×4	2×8	2×16	2×32	2×64
Max Insertion Loss (dB)	4.5	7.9	11.3	14.7	17.8	21.3
Max Loss Uniformity (dB)	0.9	1.0	1.2	1.5	1.8	2.2
Max PDL (dB)	0.3				0.35	0.4
Min Return Loss (dB)	55					
Min Directivity (dB)	55					
Max Wavelength Dependent Loss (dB)	0.5			0.8		1.0
Max Temperature Stability (dB)	0.5					
Operating Temperature (°C)	-40 ~ 85					
Storage Temperature (°C)	-40 ~ 85					
Device Dimension L×W×H (mm)	483×150×45					

### Note:

- 1) All specifications are based on the devices with connectors and adapters.
- 2) Fiber type is G657A1.
- 3) IL, PDL, WDL can also be customer specified.

### Mechanical Dimensions



### Ordering Information

GPB-xxx-19	-	x	x
Rack Mount PLC Splitter		Input Connector	Output Connector
xxx:		0=None	0=None
102=1×2		1=FC/UPC	1=FC/UPC
...		2=FC/APC	2=FC/APC
164=1×64		3=SC/UPC	3=SC/UPC
202=2×2		4=SC/APC	4=SC/APC
...		5=LC/UPC	5=LC/UPC
264=2×64		6=LC/APC	6=LC/APC

#### Note :

If you need any other special requirement, please contact our sales.

E-mail: [sales@gigalight.com](mailto:sales@gigalight.com)

Official Site: [www.gigalight.com](http://www.gigalight.com)

Email: [sales@gigalight.com](mailto:sales@gigalight.com)

Official Site: [www.gigalight.com](http://www.gigalight.com)