

LGX® Module PLC Optical Splitters



LGX® Modules are available in a variety of
Standard and High-Density
LC/APC | LC/UPC | SC/APC | SC/UPC
Custom Configurations

Description

Montclair offers a wide selection of high-quality LGX® PLC (Planar Lightwave Circuit) optical splitters for a variety of broadband network applications at a low per port cost.

These passive components provide superior and reliable performance over a wide operating wavelength range (1260 ~ 1650nm) and temperature range (-40 to +85 °C) to address high-bandwidth and environmental network demands. LGX® splitters are available up to 64 ports in standard and custom design housing options.

Features

- ✓ Low insertion loss & PDL
- ✓ High return loss & port-to-port uniformity
- ✓ Wide operating wavelength 1260 ~ 1650nm
- ✓ Wide operating temperature -40 to +85 °C
- ✓ Excellent environmental & mechanical stability
- ✓ Premium grade components & connectivity
- ✓ Telcordia GR-1221/GR-1209 & GR-326 qualified
- ✓ RoHS compliant



4RU Rack-Mount 19/23" 12 Slot for LGX® Modules
P/N MFE-RM-72/96-UL

Applications

- ✓ FTTH networks
- ✓ Passive Optical Networks (PONs)
- ✓ Telecom networks
- ✓ CATV / RFoG
- ✓ Local & Wide Area Networks



LGX® Modules available with Outdoor-Rated Fiber Cables
1x32 LGX® Module Splitter Pictured

LGX® Module PLC Optical Splitters

Specifications

1xN Parameters		Value									
Configuration		1x2	1x3	1x4	1x6	1x8	1x12	1x16	1x24	1x32	1x64
Operating wavelength nm		1260 ~ 1650									
Insertion loss dB	typ.	3.6	6.0	7.0	9.2	10.3	12.2	13.6	15.8	16.6	20.1
	max.	4.3	6.2	7.4	9.5	10.7	12.5	13.9	16.0	17.2	21.5
Uniformity dB	max.	0.5	0.6	0.8	0.8	0.8	1.2	1.4	1.5	1.5	2.0
PDL dB	max.	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
TDL dB	max.	0.5									
Return loss dB		55 / 50									
Directivity dB		55									
Operating /											
Storage Temp. °C		-40 to +85									
Fiber type		Singlemode Bend insensitive G657A									

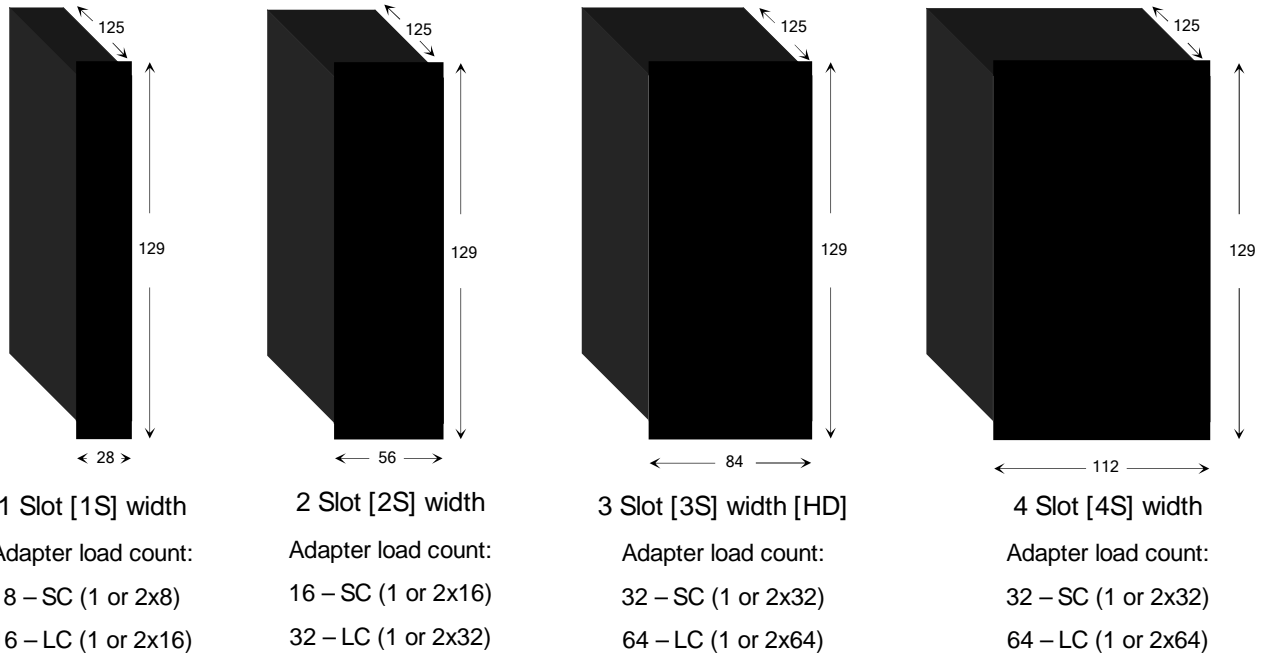
Note: Above values do not include connectors

2xN Parameters		Value					
Configuration		2x2	2x4	2x8	2x16	2x32	2x64
Operating wavelength nm		1260 ~ 1650					
Insertion loss dB	typ.	4.2	7.2	10.6	13.8	17.0	20.5
	max.	4.5	7.7	11.0	14.8	17.9	21.5
Uniformity dB	max.	0.8	1.0	1.2	1.5	1.8	2.5
PDL dB	max.	0.2	0.3	0.3	0.3	0.3	0.5
TDL dB	max.	0.5					
Return loss dB		55 / 50					
Directivity dB		55					
Operating /							
Storage Temp. °C		-40 to +85					
Fiber type		Singlemode Bend insensitive G657A					

Note: Above values do not include connectors

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LGX® Module dimensions and slot widths for LGX® Panel



LGX® Modules available in custom port configurations

Ordering information

M - T D - P - 1 - 6 0 - M - 2 / 3 - 4 - 5

1. Port configuration:		2. Adapter Connector type Input:		3. Adapter Connector type Output:	
01x02	01x12	AFC	FC/APC	AFC	FC/APC
01x03	01x16	FCU	FC/UPC	FCU	FC/UPC
01x04	01x24	ALC	LC/APC	ALC	LC/APC
01x06	01x32	LCU	LC/UPC	LCU	LC/UPC
01x08	01x64	ASC	SC/APC	ASC	SC/APC
02x02	02x16	SCU	SC/UPC	SCU	SC/UPC
02x04	02x32	PL	Pigtail	PL	Pigtail
02x08	02x64				

Note: Select 4 & 5 below only when ordering LGX modules with fiber cable

4. Fiber length Input output (m):	5. Fiber cable diameter:	
0.5 ~ 5	1.6mm	1.6mm
	2mm	2mm
	3mm	3mm

NOTE: Add (3S) to end of P/N for 3 Slot Wide with SC Duplex adapters