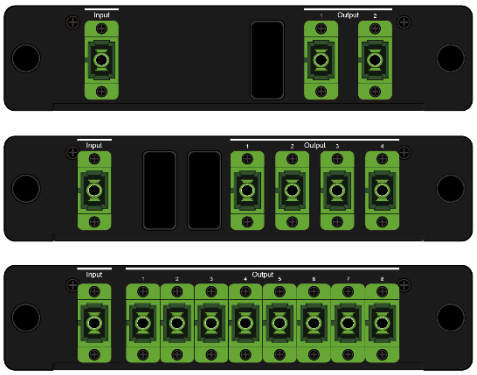
Multi-Wavelength Passive Optical Splitters





1RU 19” plate holds 3 LGX splitters





Rack Mount Splitter Type





LGX Style Splitter Type

Product Description

Single-mode Fiber **PLC splitter** (Planar Lightwave Circuit). Maxcom PLC splitters provide a low-cost solution for optical signal distribution in optical networks, with LGX Module types and 19” Rack Mount. Maxcom offers high-quality performance, low insertion loss, low PDL, high return loss and excellent uniformity over a wide wavelength range from 1260 nm to 1620 nm and operate in temperatures ranging from -40ºC to +85ºC. They were developed using silica glass waveguide circuits. Standard connectors are SC/APC, other connector types are optional.

A fiber-optic splitter, also known as a beam splitter, is based on a quartz substrate of an integrated waveguide optical power distribution device, similar to a coaxial cable transmission system. The optical network system uses an optical signal coupled to the branch distribution. The fiber optic splitter is one of the most important passive devices in the optical fiber link. It is an optical fiber tandem device with many input and output terminals, especially applicable to a passive optical network (EPON, GPON, BPON, FTTX, FTTH etc.) to connect the main distribution frame and the terminal equipment and to split the optical signal.

Product features

Broadband
Low loss
Low polarization sensibility loss.
Excellent stability in changing environments.



Cassette style

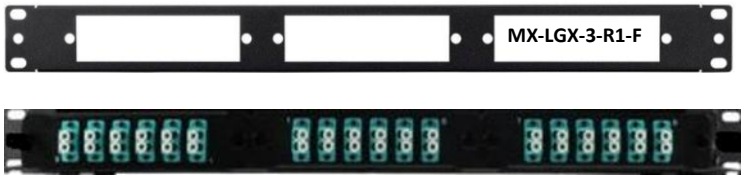


Tube type style

Splitters are also available in Cassette, ABS, or Tube type as shown in the examples above







Fully populated LGX Rack Mounting Plate

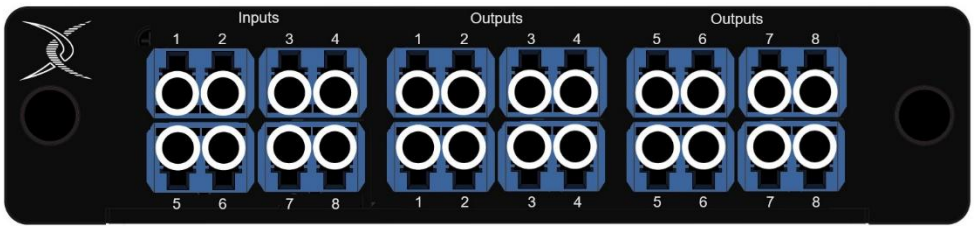
High Density Models

Sample Drawings of High-Density Options

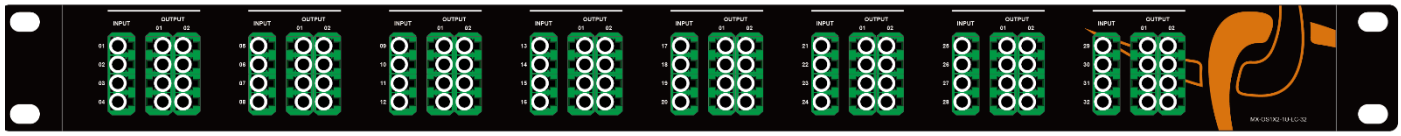
Maxcom can quickly Customize Optical Splitter Configurations to build multiple Splitters in LGX Modules or 19" Rack Mounted Chassis. Whatever your density requirements are, contact a Maxcom Representative or Partner. We will help customize a solution for your application and provide a fast and reasonable price.

Multiple 2-Way Optical Splitters shown in Examples Below:

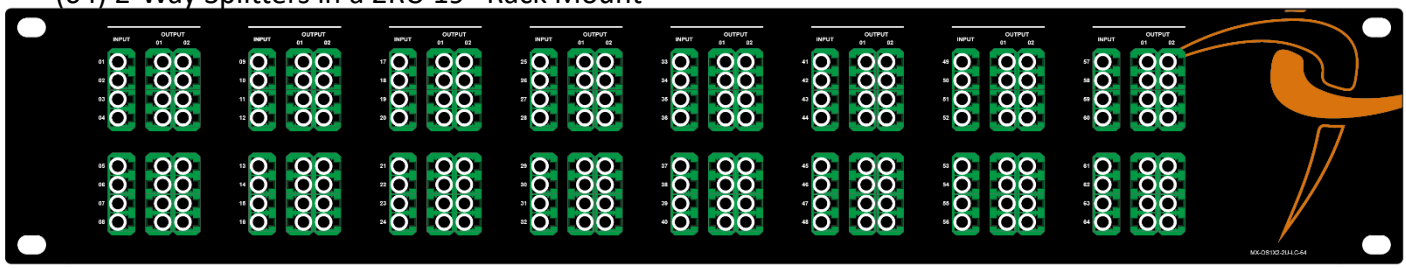
(8) 2-Way Splitters in an LGX Module



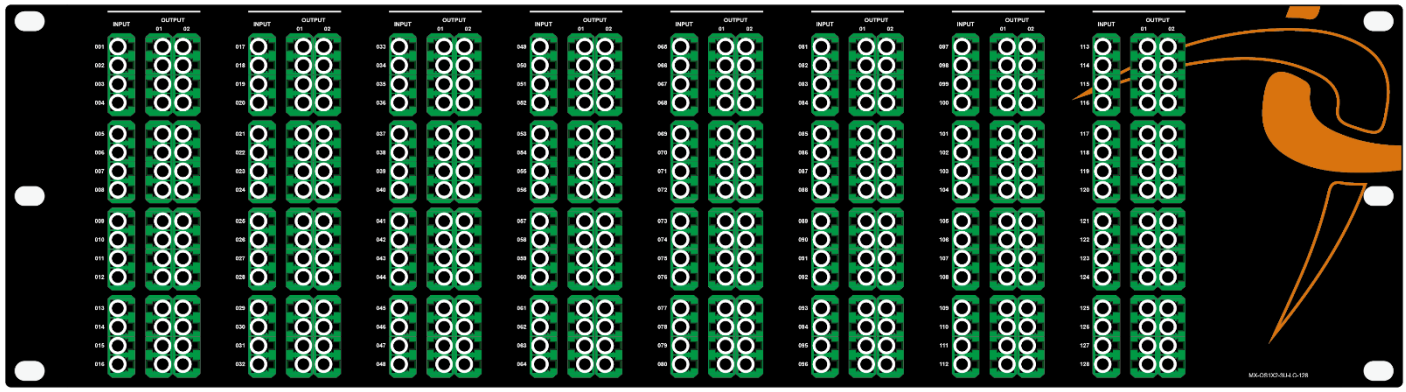
(32) 2-Way Splitters in a 1RU 19" Rack Mount



(64) 2-Way Splitters in a 2RU 19" Rack Mount



(128) 2-Way Splitters in a 3RU 19" Rack Mount



Technical Specification

Operating wavelength (nm)	1260~1650nm									
Split Ratio	1×2		1×4		1×8		1×16		1×32	
Insertion loss	S3.5		S7.3		S10.5		S14		S17	
	P3.2		P7.0		P9.8		P13.2		P16.8	
Uniformity Max (dB)	≤1.4		≤1.4		≤2.1		≤2.8		≤3	
Reflect loss Min (dB) APC	S50	P55	S50	P55	S50	P55	S50	P55	S50	P55
Polarization dependent loss (max)	≤0.2		≤0.2		≤0.3		≤0.4		≤0.4	
Stable temp.(-40~85 Celsius) (dB)	≤0.2		≤0.2		≤0.3		≤0.4		≤0.4	
Directivity Min (dB)	≥60									
Operating temperature Fahrenheit	(-40 to 185°F)									
Storage temp. Fahrenheit	(-40 to 185°F)									
Fiber type	SMF-28. 0.9, internal									
Pigtail length (m)	1.0±0.1 or customer specified (Splitters may be ordered without rack mount or LGX module)									
Rack Mount Size(L×W×H) (inch)	11.75"x16.75"x1.75"									
LGX Module	1.14"x6.18"x5.08" (29x157x129mm)								N/A LGX	

Note:

1. All measurement performed at room temperature, specifications include connectors.
2. S: standard/typical performance P: optimum achievable performance

LGX Rack Mounting Plate 3 open slots in 1RU 19” accepts LGX modules

Part# MX/LGX-3-1R-F 1.75"x19"





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