

SPLITLIGHT™

Ultra-High Density LGX Modules



Features...

- Up to 24 1x2, 1x3, or 2x2 couplers in a single module
- Multiple GPON support, including 1xn, (n = 4-64)
- Customizable tap power ratios
- 1/10/40/100G custom tap configurations
- Integrated passive WDMs
- Support for SM and MM fiber

Benefits...

- Reduces footprint of passive solutions
- Extends the life of LGX chassis
- Maximizes flexibility through customized configurations
- Provides cost-effective customization
- Minimizes insertion loss
- Enhances reliability without sacrificing performance

► Scalable

M2 Optics' SPLITLIGHT™ ultra high-density tap and passive WDM multiplexer solutions provide the highest density and scalability of taps and multiplexers available in a single LGX-style module. Using SPLITLIGHT™ high-density modules, data centers, carriers, enterprise, and government entities can tap more fibers and mux more wavelengths than ever without taking up valuable rack space. Likewise, PON network operators can use SPLITLIGHT™ high-density solutions to provide unprecedented capacity.

SPLITLIGHT'S™ LGX-style modules enable customers who have deployed LGX solutions in the past to extend the life of their existing infrastructure by reducing the footprint of their passive solutions. In addition, SPLITLIGHT'S™ LGX offering enables customers to implement a modular pay-as-you-grow model that is flexible enough to handle multiple applications, while saving significant rack space.

► Flexible

SPLITLIGHT™ is an extremely flexible and customizable solution with support for the following:

- Modular design maximizes density on legacy LGX-style chassis
- Inexpensive build-to-order customization ensure flexibility
- Power ratios from 50/50 to 99/1 (can be mixed)
- Single-mode or multimode fiber
- MTP, LC, or SC connector options on any chassis
- Multiple splitter types (1x2, 1x3, 1x4, 2x2, and 1x8/16/32/64)
- Integrated passive WDM multiplexers and network taps
- Front or rear facing connections, or a combination

SPLITLIGHT'S™ customization enables our customers to address needs with speed and agility as they arise.

Note: When MTP connectors are used, M2 Optics also offers MTP-to-MTP and MTP to fan-out cables terminated with other popular connector options at varying lengths.

► Reliable

For the best possible performance and reliability, SPLITLIGHT™ uses premium low-loss splitters and multiplexers. In addition, M2 Optics uses MTP Elite Connectors from US Conec™ to keep insertion loss at an absolute minimum. Each connection is diligently tested prior to shipment. M2 Optics can also provide MTP to MTP and MTP to LC/SC breakout cables with customized lengths and labeling.



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SPLITLIGHT™ LGX Module Applications

Network Monitoring

- Increases monitoring capabilities without impacting the network while drastically reducing rack space
- Provides flexible splitter ratios and power ratios for various traffic monitoring needs
- Enables wavelength add/drop for monitoring specific wavelengths

Passive Wavelength Mux/Demux

- Extends the life of fiber resources and maximizes the value of the physical infrastructure
- Delivers cost-effective wavelength add/drop functionality while drastically reducing rack space

PON

- Supports any PON service (GPON, EPON, WDM-PON, NG-PON, etc.)
- Combines splitting and/or mux/demux functionality in a single rack unit
- Provides non-intrusive access for monitoring tools

40/100G

- Provides highly customized solutions to address 40/100G SM and MM networks
- Enables unique uni or bi-directional monitoring of 40/100G ports

SPLITLIGHT™ LGX Module Configurations

Feature	1x2 Splitter Module	Mux Module	GPON Module
Splitter Qty. (1x2/3 or 2x2)	≤24	N/A	≤4
Splitter Ratios	1x2, 2x2, 1x3, 1x4, 1x8, 1x16, 1x32, 1x64 (call for max quantities of 1x4 - 1x64)		
Power Ratios	50:50, 60:40, 70:30, 80:20, 90:10, 95:5, 97:3, or 99:1		
Taps (1-100Gbps SM)	≤12	Call	Call
Taps (40/100Gbps MM)	≤3/1	N/A	N/A
40-88 Channel DWDM Mux	N/A	1	N/A
8/16/32 Channel DWDM/CWDM	N/A	1	N/A
Multi-Service Mux (xPON+WDM+RfoG)	N/A	1	1
Connectors	MTP-12/24 = 7; LC = 14; SC = 7		

For specific ordering information, please contact M2 Optics' sales at sales@m2optics.com or call 919-342-5619 or toll-free at 866-269-2902.

