

SPLITLIGHT™

Ultra High-Density Splitter Solutions



Features...

- Up to 192 1x2 or 1x3 splitters in a single rack unit
- Multiple GPON support, including 1xn, where n = 4-64
- Varying split ratios available within a single chassis
- Single-mode or multimode fiber support
- Multiple splitter types supported simultaneously

Benefits...

- Reduces footprint of monitoring solutions
- Scales from 8 to 192 splitters
- Maximizes flexibility
- Minimizes insertion loss
- Enhances reliability without sacrificing performance

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Scalable

M2 Optics' SPLITLIGHT™ ultra high-density splitter solutions provide the highest density and scalability of splitters available in a single RU. With SPLITLIGHT™, data centers, carriers, enterprise, and government entities can monitor more fibers than ever before without taking up valuable rack space. Likewise, GPON network operators can use SplitLight to provide unprecedented capacity.

The SPLITLIGHT™ product line consists of two chassis: Standard and High-Density (HD). The standard chassis is available in 1x2/3/4/8 splitter configurations to monitor 8 to 64 fibers. Depending on the configuration LC/SC/MTP connectors can be used. The HD chassis is available in 1x2/3/4/8+ splitters for monitoring 72 to 160 fibers. The HD chassis can be equipped with LC/SC/MTP connectors. The MTP connectors can be MTP-12/24/72.

Flexible

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

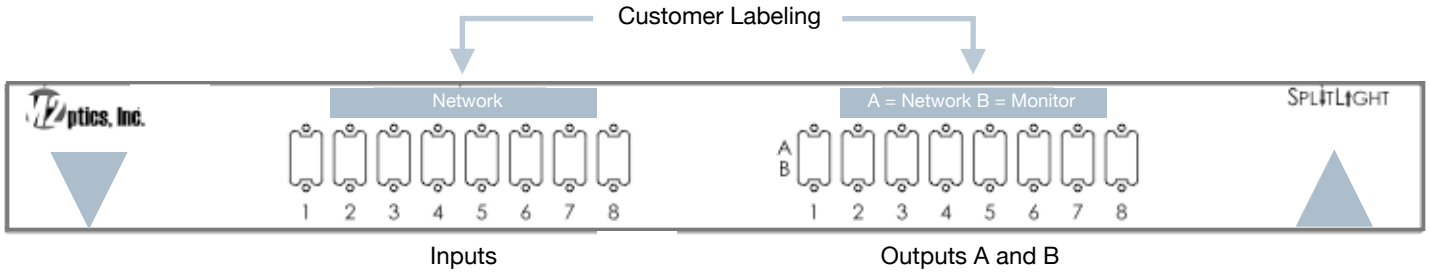
- Power ratios from 50/50 to 97/3 (can be mixed)
- Single-mode or multimode fiber
- MTP, LC, or SC connector options on both chassis
- Multiple splitter types (1x2, 1x3, 1x4, and 1x8/16/32/64)
- Front or rear facing connections, or a combination

In addition, SPLITLIGHT™ chassis provide the option to be front or rear rack-mounted. When MTP connectors are used, M2 Optics also offers fan out cables to other popular connectors options at varying lengths.

Reliable

For the best possible performance and reliability, SPLITLIGHT™ uses premium low-loss splitters. In addition, the HD chassis uses MTP Elite Connectors from US Conec™ to keep insertion loss at an absolute minimum. Each connection is diligently tested prior to shipment.





SPLITLIGHT™ STD SPECIFICATIONS

DESCRIPTION	MAX
Operating Wavelength (nm)	1260-1650 ¹
Fiber Type	SMF-28 (for Multimode OM- <i>n</i>)
Insertion Loss (dB)	4.2 ² @ 50:50 (incl. LC connectors)
Loss Uniformity (dB)	0.83
Polarization Dependent Loss (dB)	0.2
Return Loss (dB)	55
Directivity (dB)	55
Wavelength Dependent Loss (dB)	0.3
Operating Temperature (°C)	-40 to 85
Storage Temperature (°C)	-40 to 85
Dimensions (inches)	19"W x 13"D x 1.75" H

¹ for other wavelength options, please contact us.

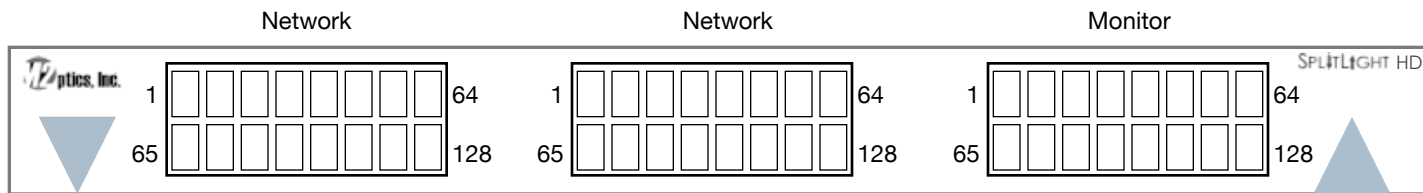
² loss may vary depending on configuration.

³ loss uniformity may vary depending on splitter type: FBT vs PLC

Ordering Information for HD Splitter Shelf (13" Depth)

<p>SPL -</p> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-right: 10px;">STD</div> <div style="border: 1px solid black; width: 40px; height: 40px; display: inline-block; margin-right: 10px;"></div> <div style="border: 1px solid black; width: 40px; height: 40px; display: inline-block; margin-right: 10px;"></div> <div style="border: 1px solid black; width: 40px; height: 40px; display: inline-block; margin-right: 10px;"></div> <div style="border: 1px solid black; width: 40px; height: 40px; display: inline-block; margin-right: 10px;"></div> <div style="border: 1px solid black; width: 40px; height: 40px; display: inline-block;"></div>	<p>Chassis</p> <p>13"D = STD</p> <p>20"D = HD</p>	<p>Splitter Type</p> <p>1x2</p> <p>1x3</p> <p>1x4</p> <p>1x8</p> <p>1x16</p> <p>1x32</p> <p>1x64</p>	<p>Splitter Qty</p> <p>001 to 064</p>	<p>Power Ratio</p> <p>50/50 = 1</p> <p>60/40 = 2</p> <p>70/30 = 3</p> <p>80/20 = 4</p> <p>90/10 = 5</p> <p>Mixed = 6</p> <p>Other = 7</p>	<p>Fiber Type</p> <p>SM = 1</p> <p>MM = 2</p>	<p>Connector</p> <p>MTP-12 = 01</p> <p>LC-APC = 02</p> <p>LC--UPC = 03</p> <p>SC = 04</p> <p>Other = 05</p>
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M2 Optics reserves the right to change the specifications listed here at any time.



SPLITLIGHT™ HD SPECIFICATIONS

DESCRIPTION	MAX
Operating Wavelength (nm)	1260-1650 ¹
Fiber Type	SMF-28 (for Multimode OM- <i>n</i>)
Insertion Loss (dB)	4.2 ² @ 50:50 (incl. LC connectors)
Loss Uniformity (dB)	0.83
Polarization Dependent Loss (dB)	0.2
Return Loss (dB)	55
Directivity (dB)	55
Wavelength Dependent Loss (dB)	0.3
Operating Temperature (°C)	-40 to 85
Storage Temperature (°C)	-40 to 85
Dimensions (inches)	19"W x 20"D x 1.75" H

¹ for other wavelength options, please contact us.

² loss may vary depending on configuration.

³ loss uniformity may vary depending on splitter type: FBT vs PLC

Ordering Information for HD Splitter Shelf (20" Depth)

SPL -	HD					
Chassis		Splitter Type	Splitter Qty	Power Ratio	Fiber Type	Connector
13"D = STD		1x2	001 to 128	50/50 = 1	SM = 1	MTP-12 = 01
20"D = HD		1x3		60/40 = 2	MM = 2	LC-APC = 02
		1x4		70/30 = 3		LC--UPC = 03
		1x8		80/20 = 4		SC = 04
		1x16		90/10 = 5		Other = 05
		1x32		Mixed = 6		
		1x64		Other = 7		

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