



# 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  $n = 4-64$
- Customizable tap power ratios
- 1/10/40/100G custom tap configurations
- Integrated passive WDMs
- Support for SM and MM fiber

## Benefits...

- Reduces footprint of monitoring solutions
- Scales from 8 to 192 splitters or 1 to 24 WDMs
- Maximizes flexibility through customized configurations
- Provides cost-effective customization
- Minimizes insertion loss
- Enhances reliability without sacrificing performance

130 Penmarc Drive, Suite 105  
Raleigh, NC 27603  
919-342-5619 / 866-269-2902  
[www.m2optics.com](http://www.m2optics.com)

## 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 RU. With SPLITLIGHT™, data centers, carriers, enterprise, and government entities can monitor more fibers and wavelengths than ever without taking up valuable rack space. Likewise, GPON network operators can use SplitLight to provide unprecedented capacity.

The SPLITLIGHT™ **patent-pending** 3D design, consists of three chassis: Low-Profile (10"), Standard (13"), and High-Density (20"). The 3D design enables SplitLight to maximize density and scalability while drastically reducing rack space. For example, a traditional LGX-style solution would require half of an entire rack to accommodate the same number of passive optical components as a single, 1RU SPLITLIGHT™ supports.

## 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)
- Integrated passive WDM muxes and network taps
- Front or rear facing connections, or a combination
- Custom-labeled faceplates

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™ 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

- Extends the life of your 10G test tool ports using SplitLight to demux 40/100GbE lanes onto 4/10 10GbE fibers
- Delivers a single platform for handling any type of 40/100G transport

## SPLITLIGHT™ Configurations

FEATURE	LOW-PROFILE CHASSIS	STANDARD CHASSIS	HIGH-DENSITY CHASSIS
Size	19"W x 10"D x 1.75"H	19"W x 13"D x 1.75"H	20"W x 20"D x 1.75"H
Splitter Quantity (1x2 or 1x3)	1-48	1-96	1-192
Splitter Ratios	1x2, 1x3, 1x4, 1x8, 1x16, 1x32, 1x48, 1x64 (call for max quantities of 1x4 - 1x64 supported in each chassis)		
Power Ratios	50:50, 60:40, 70:30, 80:20, 90:10, 95:5, 97:3, call for others		
Duplex Taps (1-100Gbps SM)	24	48	96
Duplex Taps (40/100Gbps MM)	6/2	12/4	24/8
WDM Support	Yes	Yes	Yes
40-88 Wavelength DWDM	1-6	1-12	1-24*
8/16Ch DWDM/CWDM WDM	2	4	8
100GbE 10x10 MSA WDM	2	4	8
MSO Mux (3n1: PON, RFoG, CWDM)	2	4	8
Connectors	MTP-12 = 8; LC = 48; SC = 24	MTP-12 = 16; LC = 48; SC = 24	MTP-12 = 48; LC = 48; SC = 24

\*Max fiber capacity for HD shelf is 768.

M2 Optics reserves the right to change the specifications listed here at any time. For more detailed specifications, please call or email us.