Passive Optical Components

Service providers and MSOs, get more from your existing fiber infrastructure with integrated passive optical components
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Access the untapped potential in your fiber network with help from CommScope

With the rise of the cloud, the internet of things, smart city applications, and the anticipated arrival of 5G, the need for high-bandwidth, low-latency, future-ready networks is increasing rapidly. In addition, service providers and multisystem operators (MSOs) are challenged to provide significantly more symmetrical bandwidth and comparable performance for download as well as upload. User expectations are no less demanding: They expect always-on ubiquitous connectivity.

Fiber-optic cable is key to supporting today's bandwidth-intensive applications. However, deploying new fiber is time-consuming and costly. How do you adapt your existing fiber infrastructure to support new services, add network capacity and guarantee the service performance your users expect? The short answer—passive optical components (POCs).

CommScope has developed and packaged passive optical components into several families of passive optical devices (PODs) that make it easy and fast for you to integrate them into your network. Adding PODs to an existing fiber infrastructure enables you to add capacity and deploy new network services quickly and efficiently. It is a proven strategy for increasing the performance of today's high-bandwidth fiber networks.

CommScope’s POD-integrated solutions enable you to:
- Increase capacity on existing networks without adding fiber
- Reduce costs and improve optical performance
- Deploy faster and accelerate your return on investment
- Monitor network traffic
- Coexist services on a single fiber

Integrated POD solutions are just another way CommScope helps you maximize the potential of your most important asset while increasing your revenue.

Value of passive optical devices is quickly rising

Developments in smart city applications, 5G and other new technologies have highlighted the value of passive optical devices across the fiber network—from the central office and backbone to the access network.

By 2020, global sales of PODs are expected to exceed $45 billion¹.

PODs—including splitters, multiplexers and monitoring modules—are a compelling option as service providers and MSOs look to turn up services faster and recognize revenue sooner.

¹ Allied Market Research, April 2017
Integrated passive optical devices for your key applications

Applications

- **Wavelength division multiplexers (WDMs) and de-multiplexers** are used to combine multiple signals for transport on a single fiber (multiplexing) and to separate combined signals for distribution to multiple destinations (de-multiplexing). This increases the bandwidth available on your existing fiber.

- **Monitoring modules** offer non-intrusive monitoring and troubleshooting by monitoring network traffic proactively rather than relying on customers to report outages or other issues.

- **Optical splitters** divide the optical signal. In a traditional PON deployment, the optical splitter allows a single transceiver to serve multiple premises through a single fiber.

- **Coexistence modules** enable you to support multiple services on a single fiber. For example, you can offer XGS-PON and NGPON2 over the existing PON fiber infrastructure without changing the outside plant.

CommScope’s plug-and-play passive optical devices support network performance upgrades and provide standardized or customized configurations that can be integrated quickly and easily with CommScope’s product portfolio.
Add fiber capacity easily and cost-effectively with integrated WDM (multiplexing/de-multiplexing)

As data and bandwidth demands increase, network operators often look to add more fiber to increase their system’s capacity. This is a costly and timely approach, which often prevents operators from meeting their required turn-up schedules.

CommScope’s integrated WDM solutions can immediately address the added cost and time to deploy additional fiber and accelerate turn-up of new services.

Wavelength division multiplexing (WDM) enables different services to be transmitted at different wavelengths without the signals interfering with each other. It is analogous to a futuristic multi-lane highway in which each car has its own lane and can travel at its own speed without interference from traffic in the other lanes.

Using a “multiplexer” (mux), many different wavelengths can be combined and transmitted simultaneously on a single fiber. On the receiving end, the combined signal is “unscrambled” by a de-multiplexer (demux).

CommScope offers integrated POD solutions for inside-plant and outside-plant deployments that take advantage of the two main types of wavelength division multiplexing:

**CWDM**
- Coarse wavelength division multiplexing
- Typically 4, 8 or more channels
- 18 channels available (1271 nm to 1611 nm)
- Channel spacing of 20 nm
- No amplification possible over the transmission board

**DWDM**
- Dense wavelength division multiplexing
- Typically 8-40 channels
- 96 channels available (1528.77 nm to 1606.6 nm)
- Channel spacing of 0.8 nm
- Dense spacing around 1550 nm allows amplification with EDFA (erbium-doped fiber amplifier)

CWDM and DWDM wavelengths in the C and L bands

DWDM channels are spaced much closer than CWDM channels
Integrated WDM solutions

CommScope’s WDM solutions require neither power nor fiber installation permitting, making them quick and easy to install and maintain. Speed- and technology-agnostic, they work with service providers’ existing equipment, enabling different services and technologies to be deployed on the same fiber. Because each wavelength exists as a separate and independent data pathway, customer traffic is secure.

CommScope’s WDM products enable operators to:

- Support high-speed, high-capacity throughput with low latency
- Minimize CapEx and improve quality of service
- Utilize 100 percent of their fiber investment
- Deploy GPON, CPRI, and Ethernet in the same network
- Easily migrate from 1G to 100G and higher

CommScope products and product locations for Mux/Demux applications

Integrated WDM solutions
Non-intrusive network monitoring

CommScope’s integrated monitoring modules allow network operators to passively monitor and test their fiber-optic network signals. Integrating these capabilities into a passive optical device inserted in the network enables operators to identify physical layer issues and avoid costly downtime. The modules take a portion of the signal at a single point in the central office to monitor network traffic in real time.

CommScope’s monitoring solutions enable:

- CPRI® (Common Public Radio Interface) monitoring of the signal between the remote radio head (RRH) and base band unit (BBU) in wireless deployments
- Passive mirroring for 100 percent of network traffic—including errors and non-standard network traffic—to enable detailed analysis, security, and monitoring
- Monitoring of singlemode and multimode fiber connections
- Non-intrusive monitoring and troubleshooting of network links
- Module operation without IP address or power for high reliability

Our integrated monitoring solutions feature:

- Multiple circuits per module or housing
- Support for singlemode and multimode applications
- LC APC and LC UPC connectors
CommScope products and product locations for monitoring applications
Non-intrusive monitoring modules
Passive Optical Components

Realize the full potential of your network with passive optical components

PON network deployment

Passive optical network (PON) architectures are being adopted at an increasing rate by network operators looking for a more economical solution to roll out new services and applications. By dividing the optical signal with passive optical splitters placed deeper in the network, a single transceiver can serve multiple premises using a single optical fiber. These splitters can be installed in the central office, in the field, or in the basement of a multidwelling unit for use in any FTTx network.

A PON network is a point-to-multipoint architecture that reduces the amount of fiber and central office equipment required when compared to point-to-point architectures.

As completely passive components, splitters do not provide any switching capabilities; they simply split and distribute the signal to multiple optical network terminals (ONT). Each ONT selects the packets of data intended for it.

The optical splitter used in PON-based point-to-multipoint networks can be placed at different locations in the network. Various designs include a centralized split architecture or a distributed split (cascaded) architecture.
The **centralized approach** features single-stage splitters located within a central hub and deployed in a star or daisy chain topology. This architecture provides optimal flexibility for managing subscriber connections and connecting equipment. Another advantage is that it provides an easily accessible testing point.

A **cascaded architecture** utilizes multiple splitters in series to achieve the overall desired split ratio. This approach reduces the amount of fiber in the distribution area by moving part of the splitting process to the access point where the subscriber drops are connected.

**CommScope’s splitter products enable:**
- Faster turn-up of new and existing PON networks
- Reliability and performance in outside plant environments
- Low insertion-loss (IL) specifications
- Generation of customer test reports and reliability certification
CommScope products and product locations for PON network build applications

Splitter modules
Upgrade existing PON networks with coexistence modules

Upgrading your existing PON network enables you to increase data speed and deliver additional services without having to replace your existing PON infrastructure. Additionally, CommScope’s passive optical devices support your migration to next-generation PON (XGS-PON or NG-PON2) services while controlling costs. Our portfolio of coexistence (CEx) modules are integrated into the network near the OLT (optical line terminal)—enabling existing PON services to coexist with XGS-PON, NG-PON2, RF video, OTDR (optical time domain reflectometer), as well as other current and future technologies.

CommScope’s CEx products enable:
- Multiple PON services over existing OSP infrastructure
- Increased speed and performance over GPON systems
- Utilization of unused spectrum
CommScope products and product locations for PON upgrade applications

Co-existence modules
**Inside plant— central office, headend, controlled environment**

<table>
<thead>
<tr>
<th>Location</th>
<th>CO/Headend</th>
<th>CO/Headend</th>
<th>CO/Headend</th>
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<tbody>
<tr>
<td>Indoor/Outdoor Rating</td>
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<tr>
<td>Mounting</td>
<td>NG4 Chassis and FACT</td>
<td>NG4 Chassis</td>
<td>NG4 Chassis</td>
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<td>24 LC Max</td>
<td>48 LC Max</td>
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<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Application</td>
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<tr>
<td>CWDM &amp; DWDM*</td>
<td>Max 4 4ch circuits per module</td>
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<tr>
<td>CEx**</td>
<td>Max 8 3port circuits per module</td>
<td>Max 8 3port circuits per module</td>
<td>Max 16 3port circuits per module</td>
</tr>
<tr>
<td>Monitoring***</td>
<td>Max 4 circuits per module</td>
<td>Max 4 circuits per module</td>
<td>Max 8 circuits per module</td>
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</table>

* Circuit quantity is # of wavelengths, upgrade and common port - TX & RX Test ports, Express Ports available as options

** CEx circuit is number of inputs + 1 common - Available technologies/inputs - GPON, XGS PON, NGPON2 RF Video, OTDR

*** Monitoring circuit is Source TX & RX, Monitor TX & RX and Customer TX & RX for a total of 6 connectors per circuit

**NG4 Chassis**

**FACT NG4 Chassis**

<table>
<thead>
<tr>
<th>CAPACITY:</th>
<th>CAPACITY:</th>
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<tbody>
<tr>
<td>24 - single high modules</td>
<td>One single high module per tray</td>
</tr>
<tr>
<td>12 - double high modules</td>
<td>Two single high modules per element</td>
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<tr>
<td>8 - triple high modules</td>
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</table>
## Passive Optical Components

Realize the full potential of your network with passive optical components.

### LGX Single Wide (OCM1) vs. LGX Double Wide (OCM2)

<table>
<thead>
<tr>
<th>Feature</th>
<th>LGX Single Wide (OCM1)</th>
<th>LGX Double Wide (OCM2)</th>
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<td>FPS-OCM/LGX Chassis</td>
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<tr>
<td>Connectors</td>
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<tr>
<td>Staggered Adapters</td>
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<td>No</td>
</tr>
<tr>
<td>Application</td>
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<td></td>
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<tr>
<td>CWDM &amp; DWDM*</td>
<td>Max 4 4ch circuits per module</td>
<td>Max 8 4ch circuits per module</td>
</tr>
<tr>
<td></td>
<td>Max 2 8ch circuits per module</td>
<td>Max 4 8ch circuits per module</td>
</tr>
<tr>
<td></td>
<td>Max 1 20ch circuits per module</td>
<td>Max 2 20ch circuits per module</td>
</tr>
<tr>
<td>CEx**</td>
<td>Max 8 3port circuits per module</td>
<td>Max 16 3port circuits per module</td>
</tr>
<tr>
<td>Monitoring***</td>
<td>Max 4 circuits per module</td>
<td>Max 8 circuits per module</td>
</tr>
</tbody>
</table>

* Circuit quantity is # of wavelengths, upgrade and common port - TX & RX Test ports, Express Ports available as options
** CEx circuit is number of inputs + 1 common - Available technologies/inputs - GPON, XGS PON, NGPON2 RF Video, OTDR
*** Monitoring circuit is Source TX & RX, Monitor TX & RX and Customer TX & RX for a total of 6 connectors per circuit

### Mounting options

**1RU Chassis**

* CK3903-000/FPS-OCM-K-F

**CAPACITY:**

- 3 - single wide modules
- 6 - double wide modules

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**3RU Chassis**

* CC7806-000/FPS-OCM-I-F

**CAPACITY:**

- 12 - single wide modules
- 7 - double wide modules per side/14 total

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**4RU Chassis**

* FBPS-LGX-4RU-PW

**CAPACITY:**

- 14 - single wide modules per side/28 total
- 12 - double wide modules per side/24 total

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Inside plant—central office, headend, controlled environment
## Outside plant—non-controlled environment

<table>
<thead>
<tr>
<th>OCM6 modules</th>
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<table>
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<th>Location</th>
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<tr>
<td>Mounting</td>
<td>OCSH-K Shelf</td>
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<td></td>
<td>BUDI</td>
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<td>Connectors</td>
<td>LC</td>
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<td><strong>Application</strong></td>
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<tr>
<td>CWDM &amp; DWDM*</td>
<td>Max 4 4ch circuits per module</td>
</tr>
<tr>
<td></td>
<td>Max 1 8ch circuits per module</td>
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<tr>
<td>CEx**</td>
<td>Max 8 3port circuits per module</td>
</tr>
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</table>

*Circuit quantity is # of wavelengths, upgrade and common port - TX & RX Test ports, Express Ports available as options

** CEx circuit is number of inputs + 1 common - Available technologies/inputs - GPON, XGS PON, NGPON2 RF Video, OTDR

### Mounting options

#### 1RU Shelf

EH3193-00/OCSG-K-OCM6/8

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Shelf for central office and cabinet applications

### BUDI with OCM6

Building distribution box (BUDI) for multi-dwelling units
### Passive Optical Components

Realize the full potential of your network with passive optical components.

#### Table: FOSC A Tray vs FOSC D Tray

<table>
<thead>
<tr>
<th>Feature</th>
<th>FOSC A Tray</th>
<th>FOSC D Tray</th>
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<tbody>
<tr>
<td><strong>Location</strong></td>
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<td>OSP</td>
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<tr>
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<td>Outdoor</td>
<td>Outdoor</td>
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<td><strong>Mounting</strong></td>
<td>FOSC Enclosure</td>
<td>FOSC Enclosure</td>
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<tr>
<td><strong>Connectors</strong></td>
<td>N/A - 250 micron fiber for splicing</td>
<td>N/A - 250 micron fiber for splicing</td>
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<tr>
<td><strong>Application</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CWDM &amp; DWDM</strong>*</td>
<td>Max 4 4ch circuits per module Max 2 8ch circuits per module Max 1 12ch circuits per module Max 1 20ch circuits per module</td>
<td>Max 8 4ch circuits per module Max 4 8ch circuits per module Max 2 20ch circuits per module Max 1 48ch circuits per module</td>
</tr>
</tbody>
</table>

* Circuit quantity is # of wavelengths, upgrade and common port - TX & RX Test ports, Express Ports available as options

### Mounting options

#### FOSC Enclosure

- Outside plant enclosure

#### BUDI with FOSC tray

- Multi-dwelling unit building distribution box
### FIST-FSASA2

<table>
<thead>
<tr>
<th>Location</th>
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<tbody>
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<tr>
<td>Mounting</td>
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<td>Connectors</td>
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<tr>
<td></td>
<td>Max 2 4ch circuits per module</td>
</tr>
<tr>
<td></td>
<td>Max 1 8ch circuits per module</td>
</tr>
</tbody>
</table>

* Circuit quantity is # of wavelengths, upgrade and common port - TX & RX Test ports, Express Ports available as options

### Mounting options

**FIST Enclosure**

![FIST Enclosure Image]
CHAPTER 3
SPLITTER ORDERING INFORMATION
Passive Optical Components

Realize the full potential of your network with passive optical components

Splitters

- Field-installable holder or as a bare device
- Singlemode, wideband splitters
- Split ratios from 1:2 to 1:64
- PLC (planar technology)
- 250-micron fiber with 2.5-meter lead

<table>
<thead>
<tr>
<th>Field-installable housing</th>
<th>Ratio</th>
<th>Splitter MID</th>
<th>Splitter description</th>
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<tr>
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<td>OCC1P-10400-NNNQNQF</td>
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<td>1x8</td>
<td>CC8542-000</td>
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<tr>
<td>1x32</td>
<td>CC8312-000</td>
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<td>1x64</td>
<td>CC8313-000</td>
<td>OCC1P-16400-NNNQNQF</td>
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</table>

<table>
<thead>
<tr>
<th>Bare device housing</th>
<th>Ratio</th>
<th>Splitter MID</th>
<th>Splitter description</th>
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<td>CC8284-000</td>
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</tbody>
</table>

CommScope provides standardized solutions for PON network deployments. For other applications, we invite you to contact your CommScope representative who can help you configure the most appropriate POD for your requirements.
FIST-OC-SC

Optical component single circuit

CommScope’s FIST-OC-SC splitter family offers a flexible platform for splicing and the addition of optical components in outside plant closures and customer premises wall boxes. The fibers are attached to the cassette to ensure failure-free installation and better protect splitter components from outside forces.

Features

- Tray height of 4 millimeters
- Split ratios up to 1:32
- On-tray splice capacity for the input fiber(s) for SMUV and ANT splice protectors
- Output fibers can be easily rerouted to the other side
- A metal plate protects the fiber-optic splitter

<table>
<thead>
<tr>
<th>Splitter size</th>
<th>Splitter MID</th>
<th>Splitter description</th>
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<td>1x4</td>
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<tr>
<td>1x32</td>
<td>760241823</td>
<td>FIST-OC-SC-P11W</td>
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</table>

OCM8

OCM8 features

- Three sizes (small, medium and large)
- Accommodates any symmetrical split ratio from 1:2 to 1:64
- High-performance 1.8-meter LSZH fiber-optic cables
- Factory assembled with LC Grade-B connectors
- Designed for high-density environments
- Simple integration into any central office, fiber distribution hub, or MDU BUDI box application
- Stackable and easily mounted into CommScope’s OCSH-K-OCM6/8 shelf
### For cabinet
**FIST-CAB5 application**

<table>
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<th>MID</th>
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### For optical distribution frame
**FIST-GR3 application**

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### For multidwelling unit
**FIST-BUDI application**

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Module storage shelf OCSH-K-OCM6/8

The OCSH is a mechanical shelf assembly that accommodates the OCM6/8 splitter or xWDM modules in a rack or cabinet.

Features

- Typically used in 15-inch, ETSI or 19-inch active racks, or data racks
- Can be front mounted
- Occupies one height unit
- Front access to the modules
- Pigtails can exit the shelf left or right—maximum capacity is 340x1.8 mm patch cords
- Integrated fiber cord management
- Simple plug and play of modules

OCSH-K dimensions:

- Height 44 mm x width 481 mm x depth 281 mm

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<td>Medium**</td>
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<tr>
<td>Large</td>
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</tbody>
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*Medium housing containing splitters &ge;32 outputs
**Medium housing containing splitters &le;16 outputs
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