



OCM8 splitter modules

Specification guide for single mode devices

COMMScope®

OCM8 splitter modules

These passive optical splitters can positively impact your network rollout by extending your network, reducing the number of fibers necessary and saving on time spent for deployment.

Plus, they can easily be added to your network on an as-needed basis, which allows you to delay CapEx expenditures until necessary. OCM8 are designed for use both in indoor and outside plant environments. So, they're equally up to the task of splitting and combining light signals in the field to provide new service at Multi-Dwelling Units (MDUs) as they are for use in the central office to monitor network activities.

CommScope's OCM8 splitter portfolio is based on planar lightwave circuit (PLC) technology used to split and combine light. The OCM8 housings support a variety of split ratios: 1:N and 2:N configurations where N=2 to 64. Standard configuration use LC/APC and can be offered with SC/APC connectors both according to IEC 61755-1 grade B/1. In-line housing style is available upon request.

CommScope's portfolio of OCM8 splitters meets OSP operating temperature and environment requirements of -40°C to +70°C. The OCM8 modules are designed for use in environmental category C (controlled) and category OP (outdoor protected) as characterized by IEC 61753-1 Ed2. PLC splitters are designed and tested to IEC 61753-031-3 Ed2.

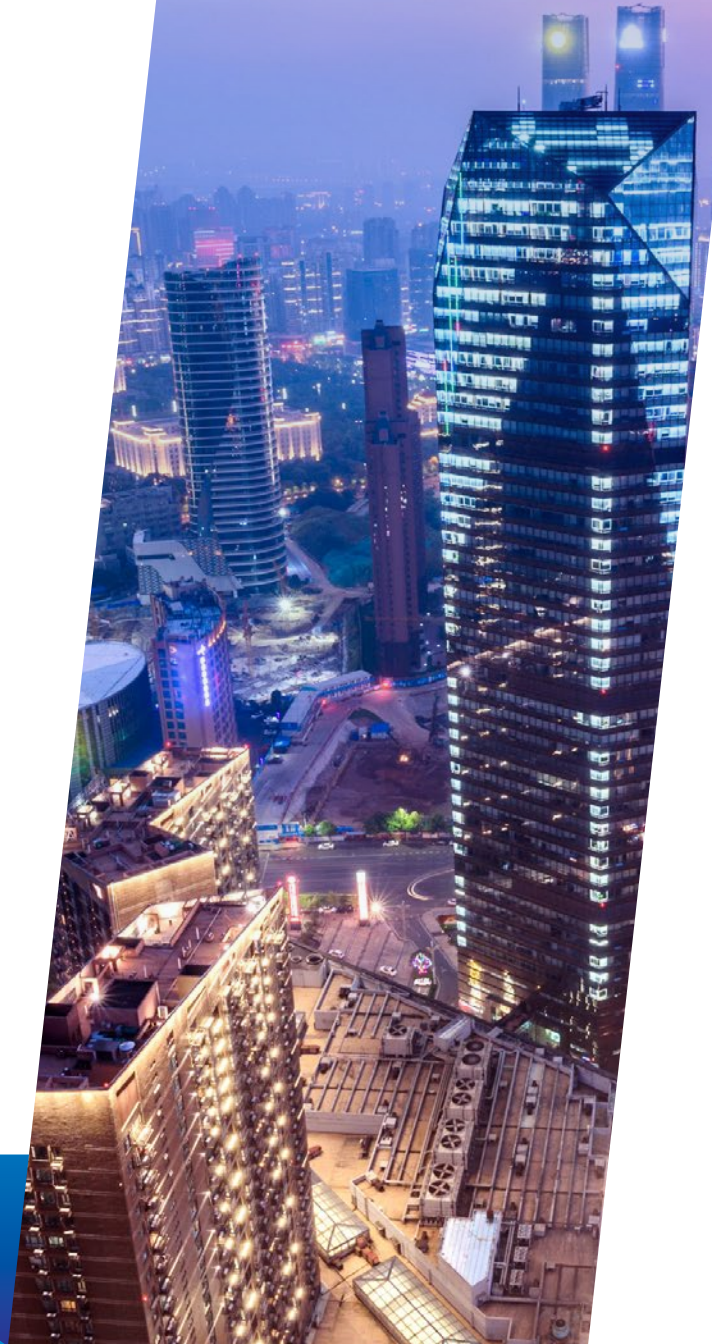
Advantages

- Low attenuation (insertion loss)
- Consistent performance
- Small footprint
- Excellent uniformity
- Low polarization dependent loss (PDL)

Applications

- Passive optical networks (PONs)—FTTH and FTTx
- Telecommunications networks
- CATV / MSOs

The incorporation of fiber-optic splitters reduces the number of fibers in the network—decreasing both the footprint and investment cost of network rollouts.



Integrated solutions using a small robust package

CommScope's OCM8 splitters are an example of a critical fiber network component that today can easily be deployed by any technician. This next generation of optical component modules comes packaged in a tough, protective module to safeguard its performance and integrity, and features factory-connectorized pigtails for plug-and-play simplicity and failure-free installation.

These premium passive optical devices split and combine light in fiber networks. They come in three sizes (small, medium and large) to accommodate any symmetrical split ratio from 1:2 up to 1:64. These modules also feature our high-performance 1.8 m LSZH fiber optic cables that are factory-assembled with LC/APC connectors as standard.

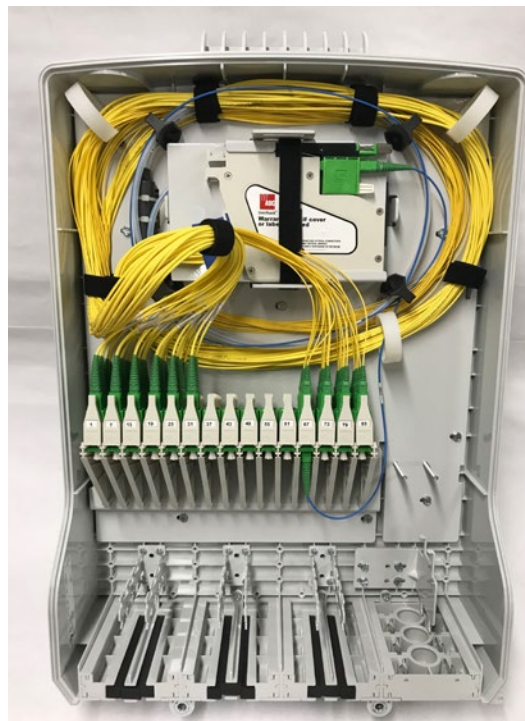
Designed for high-density environments, OCM8 modules are our smallest integrated splitter modules. They're stackable and can be mounted into CommScope's OCSH-K-OCM6/8 shelf. Standard 19" mounting allows installation into Optical Distribution frames or Cabinets. They're also available in butt and in-line versions for simple integration into any central office, fiber distribution hub or BUDI box application. In addition, they're backwards compatible with most older generation modules.

Especially designed for high-density environments



OCSH-K-OCM6/8

Shelf for central office and cabinet applications



BUDI

Building distribution box (BUDI) for multi-dwelling units

OCM8 splitter optical performance

| Split ratio | Bandpass (nm) | Insertion loss max (dB), B grade | Uniformity max (dB) | RL min (dB) | PDL max (dB) | Directivity min (dB) |
|-------------|---------------|----------------------------------|---------------------|-------------|--------------|----------------------|
| 1x2 (50/50) | 1260-1650 | 4.2 | 0.85 | 55 | 0.2 | 55 |
| 1x4 | 1260-1650 | 7.6 | 0.95 | 55 | 0.2 | 55 |
| 1x8 | 1260-1650 | 10.9 | 1.25 | 55 | 0.2 | 55 |
| 1x16 | 1260-1650 | 14.2 | 1.55 | 55 | 0.3 | 55 |
| 1x32 | 1260-1650 | 17.5 | 1.75 | 55 | 0.3 | 55 |
| 1x64 | 1260-1650 | 21.0 | 2.25 | 55 | 0.4 | 55 |
| 2x2 (50/50) | 1260-1650 | 4.7 | 1.45 | 55 | 0.3 | 55 |
| 2x4 | 1260-1650 | 8.0 | 1.65 | 55 | 0.3 | 55 |
| 2x8 | 1260-1650 | 11.4 | 1.85 | 55 | 0.3 | 55 |
| 2x16 | 1260-1650 | 14.8 | 2.25 | 55 | 0.4 | 55 |
| 2x32 | 1260-1650 | 18.2 | 2.65 | 55 | 0.4 | 55 |



OCM8 Splitter module

Butt style



In-line OCM8 splitter module

Optional for BUDI boxes

Housing types and dimensions

| Split ratio | Housing type OCM8: butt style | | | |
|------------------|-------------------------------|------------|-------------|--------------|
| | Length (mm) | Width (mm) | Height (mm) | Housing type |
| 1x2 (also 2x2) | 100 | 45 | 5 | Small |
| 1x4 (also 2x4) | 100 | 45 | 5 | |
| 1x8 (also 2x8) | 100 | 45 | 5 | |
| 1x16 (also 2x16) | 100 | 45 | 10 | Medium |
| 1x32 (also 2x32) | 100 | 45 | 10 | |
| 1x64 (also 2x64) | 140 | 45 | 20 | Large |

OCM8 splitters

OCM8 splitter modules LC/APC – 1:x split ratio

| MID | Description |
|-------------------------|---|
| 1:2 split ratio | |
| 760241980 | OCM8 module containing 1x 1:2 PLC splitter, LC/APC, 2m pigtail length input/output, butt version |
| 760242092 | OCM8 module containing 1x 1:2 PLC splitter, LC/APC, 4m pigtail length input/output, butt version |
| 1:4 split ratio | |
| 760241649 | OCM8 module containing 1x 1:4 PLC splitter, LC/APC, 2m pigtail length input/output, butt version |
| 760242096 | OCM8 module containing 1x 1:4 PLC splitter, LC/APC, 4m pigtail length input/output, butt version |
| 1:8 split ratio | |
| 760241981 | OCM8 module containing 1x 1:8 PLC splitter, LC/APC, 2m pigtail length input/output, butt version |
| 760241576 | OCM8 module containing 1x 1:8 PLC splitter, LC/APC, 4m pigtail length input/output, butt version |
| 1:16 split ratio | |
| 760242012 | OCM8 module containing 1x 1:16 PLC splitter, LC/APC, 61cm pigtail length input/output, butt version |
| 760253085 | OCM8 module containing 1x 1:16 PLC splitter, LC/APC, 72cm pigtail length input/output, butt version |
| 760241982 | OCM8 module containing 1x 1:16 PLC splitter, LC/APC, 2m pigtail length input/output, butt version |
| 760242098 | OCM8 module containing 1x 1:16 PLC splitter, LC/APC, 4m pigtail length input/output, butt version |
| 1:32 split ratio | |
| 760253086 | OCM8 module containing 1x 1:32 PLC splitter, LC/APC, 61cm pigtail length input/output, butt version |
| 760242011 | OCM8 module containing 1x 1:32 PLC splitter, LC/APC, 72cm pigtail length input/output, butt version |
| 760241983 | OCM8 module containing 1x 1:32 PLC splitter, LC/APC, 2m pigtail length input/output, butt version |
| 760242095 | OCM8 module containing 1x 1:32 PLC splitter, LC/APC, 4m pigtail length input/output, butt version |
| 1:64 split ratio | |
| 760241984 | OCM8 module containing 1x 1:64 PLC splitter, LC/APC, 2m pigtail length input/output, butt version |
| 760242093 | OCM8 module containing 1x 1:64 PLC splitter, LC/APC, 4m pigtail length input/output, butt version |

OCM8 splitter modules LC/APC – 2:x split ratio (continues on next page)

| MID | Description |
|------------------------|--|
| 2:2 split ratio | |
| 760242985 | OCM8 module containing 1x 2:2 PLC splitter, LC/APC, 2m pigtail length input/output, butt version |
| 760253087 | OCM8 module containing 1x 2:2 PLC splitter, LC/APC, 4m pigtail length input/output, butt version |
| 2:4 split ratio | |
| 760242986 | OCM8 module containing 1x 2:4 PLC splitter, LC/APC, 2m pigtail length input/output, butt version |
| 760253088 | OCM8 module containing 1x 2:4 PLC splitter, LC/APC, 4m pigtail length input/output, butt version |
| 2:8 split ratio | |
| 760253089 | OCM8 module containing 1x 2:8 PLC splitter, LC/APC, 61cm pigtail length input/output, butt version |
| 760244205 | OCM8 module containing 1x 2:8 PLC splitter, LC/APC, 72cm pigtail length input/output, butt version |
| 760242984 | OCM8 module containing 1x 2:8 PLC splitter, LC/APC, 2m pigtail length input/output, butt version |
| 760253090 | OCM8 module containing 1x 2:8 PLC splitter, LC/APC, 4m pigtail length input/output, butt version |

OCM8 splitters

OCM8 splitter modules LC/APC — 2:x split ratio (continued from previous page)

| MID | Description |
|-------------------------|---|
| 2:16 split ratio | |
| 760253091 | OCM8 module containing 1x 2:16 PLC splitter, LC/APC, 61cm pigtail length input/output, butt version |
| 760243011 | OCM8 module containing 1x 2:16 PLC splitter, LC/APC, 72cm pigtail length input/output, butt version |
| 760242983 | OCM8 module containing 1x 2:16 PLC splitter, LC/APC, 2m pigtail length input/output, butt version |
| 760253092 | OCM8 module containing 1x 2:16 PLC splitter, LC/APC, 4m pigtail length input/output, butt version |
| 2:32 split ratio | |
| 760241435 | OCM8 module containing 1x 2:32 PLC splitter, LC/APC, 61cm pigtail length input/output, butt version |
| 760243012 | OCM8 module containing 1x 2:32 PLC splitter, LC/APC, 72cm pigtail length input/output, butt version |
| 760242987 | OCM8 module containing 1x 2:32 PLC splitter, LC/APC, 2m pigtail length input/output, butt version |
| 760253093 | OCM8 module containing 1x 2:32 PLC splitter, LC/APC, 4m pigtail length input/output, butt version |
| 2:64 split ratio | |
| 760253094 | OCM8 module containing 1x 2:64 PLC splitter, LC/APC, 2m pigtail length input/output, butt version |
| 760253095 | OCM8 module containing 1x 2:64 PLC splitter, LC/APC, 4m pigtail length input/output, butt version |

OCM8 chassis solution — 1HU

1HU module storage shelf OCSH-K-OCM6/8

- Typically used in 19" active racks, or data racks
- Can be front mounted
- 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 module
- Dimensions: height 44 mm x width 481 mm x depth 281 mm

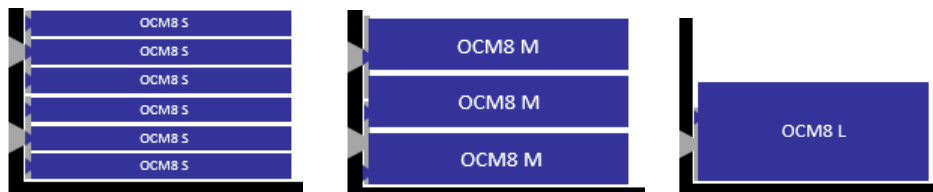


| Description | Color | Part number |
|---------------|-------|-------------|
| OCSH-K-OCM6/8 | Grey | EH3193-000 |

1HU chassis capacity overview

| Splitter housing type | Maximum number of modules per shelf | Maximal configuration | Maximum cable count (1.8 mm diameter) | OCM8 adaptation bracket required for maximum capacity |
|-----------------------|-------------------------------------|-----------------------|---------------------------------------|---|
| OCM8 S size | 30 | 2x8 | 300 | 6 |
| OCM8 M size | 15 | 2x16* | 270 | 6 |
| OCM8 M size | 10 | 2x32 | 340 | 6 |
| OCM8 L size | 5 | 2x64 | 330 | 3 |
| OCM6 | 10 | 2x32 | 340 | Not |

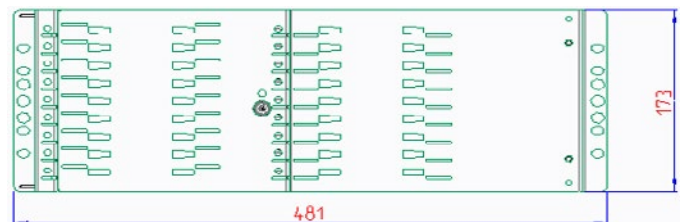
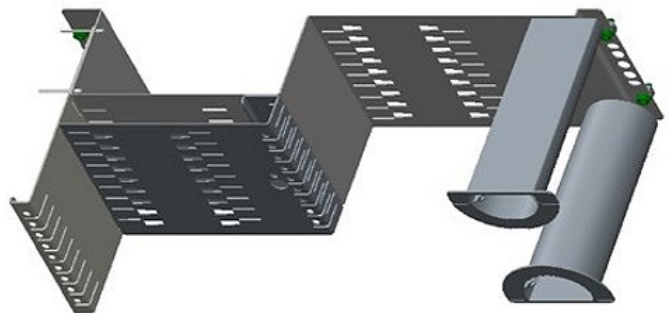
*Not a maximal splitter configuration but allows to install maximal number of OCM8 M splitters



OCM8 chassis solution – 4HU

4HU module storage shelf OCSH-L

- Typically used in 19" active racks, or data racks, cabinets
- Allows the storage of up to 18 modules OCM6 & OCM8 (using adaptation bracket)
- Front access to the modules
- Pigtails can enter the shelf at the left or right when the shelf is turned upside down
- 30 mm bend radius protection
- Compatible with racks and cabinets using the FIST fiber management system
- Dimensions: height 173 mm x width 481 mm x depth 242 mm



| Description | Color | Part number |
|---------------------------------------|-------|-------------|
| OCSH-L | Grey | CV7336-000 |
| Accessories | | Part number |
| Convert 4RU, 19" to ETSI mounting kit | | 932802-000 |

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