

OCM8: Optical component modules

The next generation splitter module

As Millennials and Generation Z continue to adopt bandwidth-hungry technology, the need for faster speeds is becoming the new normal. Computers, artificial intelligence and electronics that were once only imagined in sci-fi entertainment are now appearing in our homes, at work and in public facilities. This technology along with photonic microprocessors—which are looming on the horizon—are pushing telecoms, service providers and cable companies to deliver fiber connectivity now.

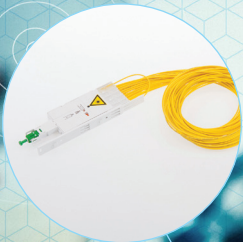
IDC predicts that 1 million new devices will go online every hour by 2020.

Jason Liu, 2017 Enterprise Network Security Trends blog

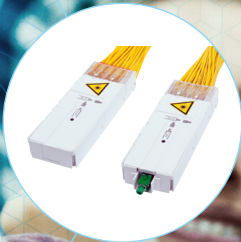
<http://blogs.cisco.com/enterprise/2017-enterprise-network-security-trends>

Keeping up with future demands

Fortunately, as consumer high-tech devices have evolved, so has the technology to install fiber networks. In the past, deploying fiber-to-the-x (FTTx) required highly-skilled installers with precision instruments. But today, plug-and-play components like OCM8 optical splitter modules make it easier and faster to deploy fiber networks, which reduces the cost of installation.



Dependable: OCM8 integrated optical component modules deliver excellent reliability and channel uniformity.



Rugged: Devices housed in robust, pre-sealed case to ease handling and installation in all environments.



Small: OCM8 are our most-compact modules, which easily fit in most rack, shelf or splitter panel.

Delivering big results in a small 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 come 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.



FIST-GR3 Top of Rack Shelf

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 or SC connectors.



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 and the FIST-GR3 Top of Rack shelf for optimal density and cable management. 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.



OCSH-K-OCM6/8



Efficient

- Low insertion loss
- Low polarization dependent loss (PDL)
- Combine/split up to 64 channels
- Factory-connectorized pigtails

Effective

- Can be stacked or mounted
- Rugged module encasement
- Supports indoor and outside plant applications
- Backwards compatible with existing networks

Convenient

- Available with LC or SC connectors
- In-line or butt versions
- Three miniature sizes (small, medium, large)
- Can be added later on as-needed basis

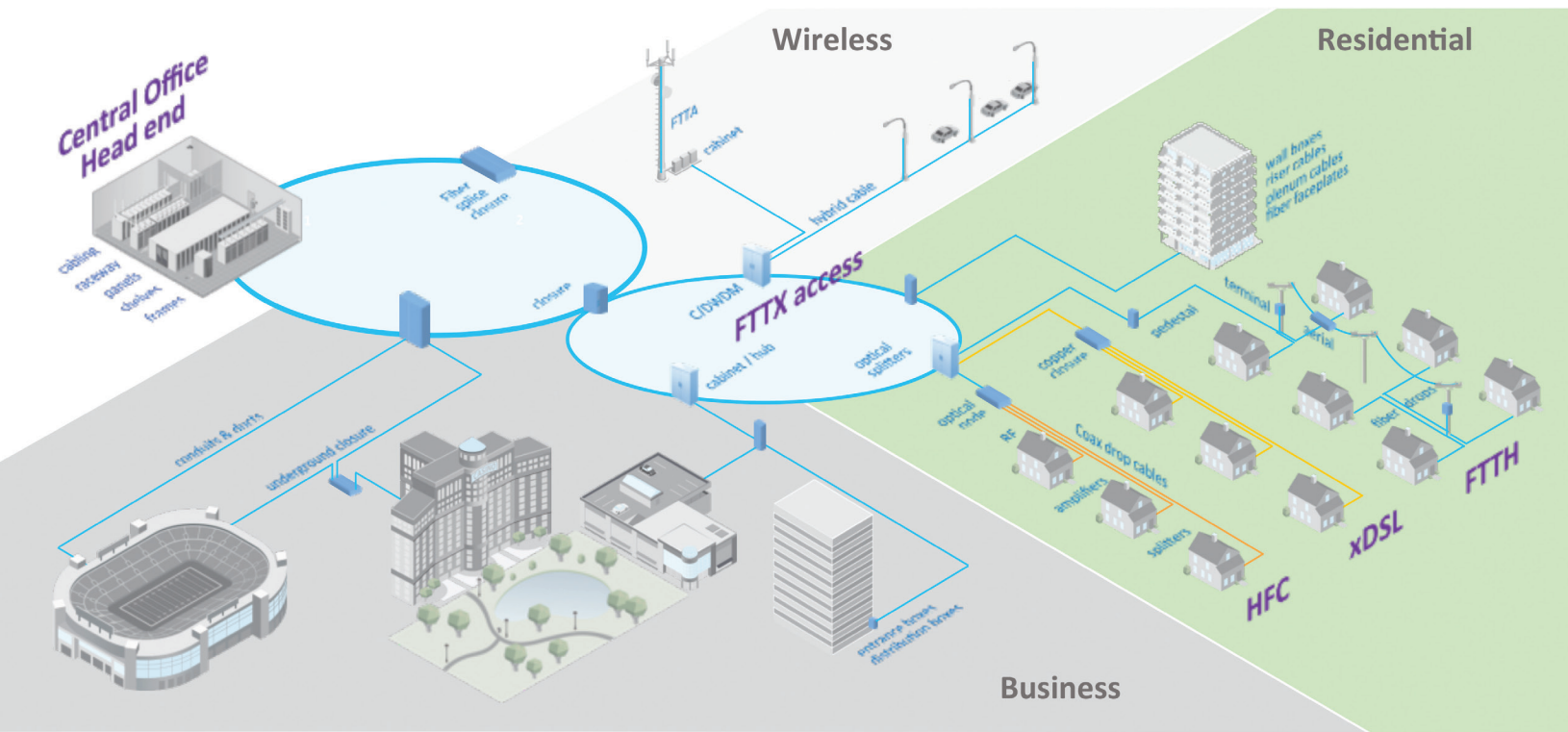
Optical component module applications

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. The module can also easily be removed from an application without interfering with other installed components.

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 applications

- Passive optical networks (PON)
- CATV systems
- Fiber-to-the-x (FTTx)
- Telecom

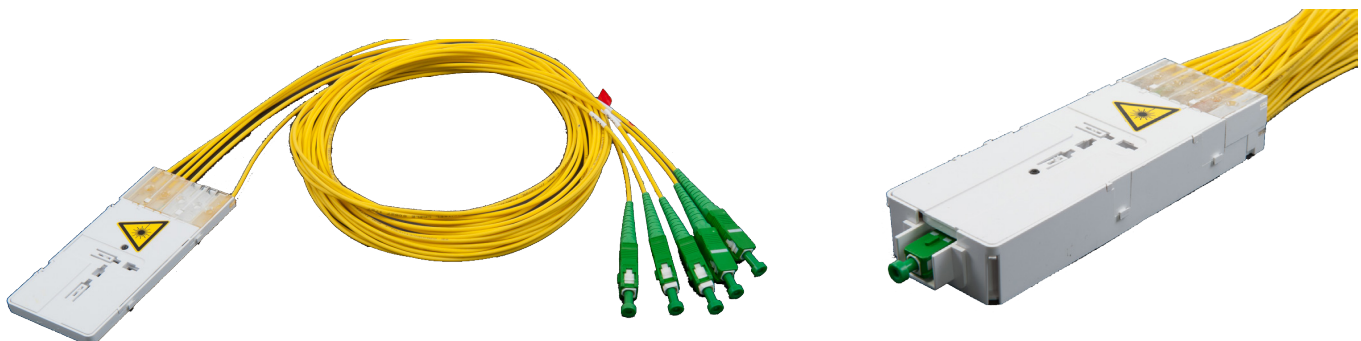


Ordering information

Released standard configurations

Catalog Number	TCPN	Description
OCM8-SP114SS2-18DB	EK2345-000	Small OCM8 module containing 1x 1:4 PLC splitter; SC/APC connectors on input and outputs; 1.8m pigtail length; butt version
OCM8-SP118SS2-18DB	EK2347-000	Small OCM8 module containing 1x 1:8 PLC splitter; SC/APC connectors on input and outputs; 1.8m pigtail length; butt version
OCM8-SP118SS2-61CB	EK2348-000	Small OCM8 module containing 1x 1:8 PLC splitter; SC/APC connectors on input and outputs; 61cm pigtail length; butt version
OCM8-SP118SS2-72CB	EK2349-000	Small OCM8 module containing 1x 1:8 PLC splitter; SC/APC connectors on input and outputs; 72cm pigtail length; butt version
OCM8-SP11GSS2-18DB	EK2350-000	Medium OCM8 module containing 1x 1:16 PLC splitter; SC/APC connectors on input and outputs; 1.8m pigtail length; butt version
OCM8-SP11GLL2-40DB	EK2351-000	Medium OCM8 module containing 1x 1:16 PLC splitter; LC/APC connectors on input and outputs; 4.0m pigtail length; butt version
OCM8-SP11WSS2-18DB	EK2352-000	Medium OCM8 module containing 1x 1:32 PLC splitter; SC/APC connectors on input and outputs; 1.8m pigtail length; butt version
OCM8-SP11WLL2-18DB	EK2353-000	Medium OCM8 module containing 1x 1:32 PLC splitter; LC/APC connectors on input and outputs; 1.8m pigtail length; butt version

Style	Module	Size (L x W x H)	Capacity
Butt version	Small	100 x 45 x 5 mm	1:4 or 1:8 splitter (also 2:N)
Butt version	Medium	100 x 45 x 10 mm	1:16 or 1:32 splitter (also 2:N)
Butt version	Large	130 x 45 x 20 mm	1:64 splitter (also 2:N)
In-line version	Small	138 x 45 x 10 mm	1:4 or 1:8 splitter (2:N not possible)
In-line version	Medium	138 x 45 x 15 mm	1:16 or 1:32 splitter (2:N not possible)
In-line version	Large	138 x 45 x 20 mm	1:64 splitter (2:N not possible)



OCM8 – SP1 | | | |---|---| | 1 | X | | 2 | X | | 3 | X | | 4 | X | | 5 | X | – | | | | | |---|---|---|---| | 6 | X | X | X | | 7 | X | | |

Number of inputs

1	1	One
	2	Two**

* 2 inputs are only possible for the butt orientation of the module

Connector type

5	Not connectorized	N
	50 dB (UPC)*	1
	60 dB (APC 8°)*	2
	60 dB (APC 9°)*	3

* UPC = Ultra polished

* APC = Angled polished

Number of outputs

2	2	1:2 (Small)
	4	1:4 (Small)
	8	1:8 (Small)
	G	1:16 (Medium)
	W	1:32 (Medium)
	Z	1:64 (Large)

Pigtail length

6	61C	61 cm
	72C	72 cm
	12D	1,2 m
	15D	1,5 m
	18D	1,8 m
	20D	2,0 m
	40D	4,0 m

Input connector

3	N	Not connectorized (2,0 m)
	S	SC
	L	LC

In the in-line version, the connector for the input is always SC

Input orientation

7	B	Butt
	I	In-line

Output connector

4	N	Not connectorized
	S	SC
	L	LC

Note: Not all configurations are possible. Please consult your local sales engineer for confirmation.

Everyone communicates. It's the essence of the human experience. *How* we communicate is evolving. Technology is reshaping the way we live, learn and thrive. The epicenter of this transformation is the network—our passion. Our experts are rethinking the purpose, role and usage of networks to help our customers increase bandwidth, expand capacity, enhance efficiency, speed deployment and simplify migration. From remote cell sites to massive sports arenas, from busy airports to state-of-the-art data centers—we provide the essential expertise and vital infrastructure your business needs to succeed. The world's most advanced networks rely on CommScope connectivity.



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