



Passive Optical Portfolio Overview

Splitters, WDM Multiplexers and OADM Products

Optelian offers an extensive suite of passive networking products with the functionality required to serve optical transport requirements. Elements include circulators, splitters, basic WDM, CWDM and DWDM multiplexers and OADMs. Products are available in a variety of industry-standard packages for standalone deployment or mounting in shelves. Specialty modules and customer-specific versions are an option. Extended operating temperature solutions are also available for PON and other outside plant applications.

Highlights

- Rich portfolio of products in various physical packages, port configurations and functions
- Fully passive, with no requirement for power or cooling
- Suitable for environments that experience extended temperatures
- Standardized and customer-specific configurations

Forms

- LGX modules for passive shelves
- DMS modules for passive shelves
- OMS cards for active shelves
- Splice trays
- Enclosed shelves for rack-mount

Application

- Optical reach
- Transport infrastructure
- Fiber exhaust relief
- Last mile, access and aggregation
- FTTH and PON transport
- Mobile backhaul/fronthaul

Designed in accordance with

- NEBS CO environments
- Outside plant unconditioned sites

Overview

This Portfolio Overview catalogues Optelian's range of passive optical transport products. It provides a brief introduction to the products offered, grouped by key functionality and by physical format. For detailed product information, refer to more specific documentation, such as data sheets and application notes.

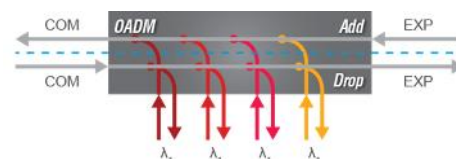
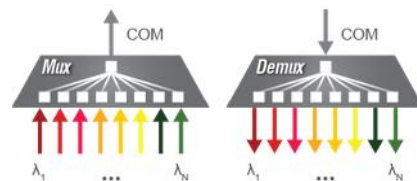


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Physical format options

Optelian's passive products provide customers maximum flexibility, delivered in industry-standard and customized formats to suit a wide range of network designs, site requirements, and mounting options.

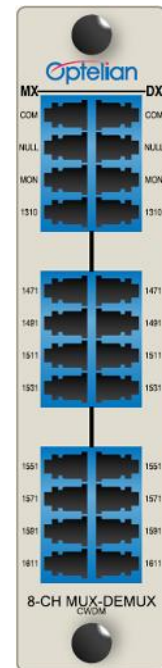
LGX modules

LGX modules are packaged in the industry-standard format originally designed by Lucent Technologies, and share common external dimensions. All are completely passive with no power or ground, and have faceplate connectors for front access. LGX modules are designed to fit in the Optelian family of CMS passive mounting shelves, or in any standard LGX-compatible passive mounting platform. For detailed information on the Optelian family of CMS mounting shelves, refer to the data sheet. The majority of LGX modules are available in single-slot width, while several modules are available in double-slot or triple-slot widths.

LGX module common specifications

Parameter	Value
Operating temperature (SC or LC)	-40 to 85°C (-40 to 185°F)
Operating temperature (MPO)	-40 to 75°C (-40 to 167°F)
Relative Humidity (non-condensing)	5 to 95%
Dimensions, case (HxWxD) (single-slot)	10.2 x 2.8 x 16.5 cm (4.0 x 1.1 x 6.5 in.)

Note: selected LGX modules have minor differences in depth

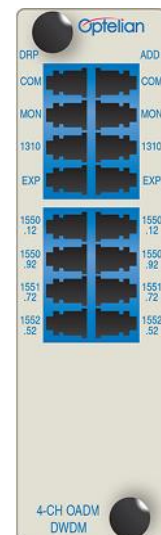


DMS modules

DMS modules are packaged in a format similar to LGX but are more compact in height. All are completely passive with no power or ground, and have faceplate connectors for front access. DMS modules are designed to fit in the Optelian DMS-0104 passive mounting shelf. For detailed information on the Optelian DMS mounting solution, refer to the data sheet. DMS modules are available in single-slot and half-slot widths.

DMS module common specifications

Parameter	Value
Operating temperature (SC or LC)	-40 to 85°C (-40 to 185°F)
Relative Humidity (non-condensing)	5 to 95%
Connectors	LC
Dimensions, case (HxWxD) (single-slot)	9.14 x 2.8 x 16.5 cm (3.6 x 1.1 x 6.5 in.)
Dimensions, case (HxWxD) (half-slot)	9.14 x 1.5 x 16.5 cm (3.6 x 0.6 x 6.5 in.)

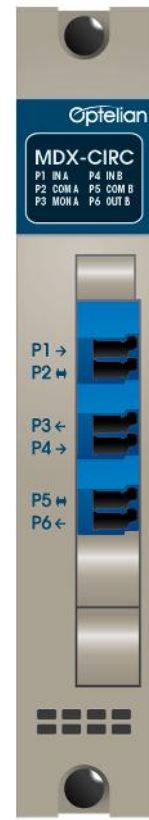


OMS cards

OMS format passive cards are designed to fit in the Optelian family of active mounting shelves (OMS). All cards of this type contain passive optical elements, and all client signals are transported passively. The cards themselves have electronics to allow electrical connectivity to the OMS purely for system detection purposes. For detailed information on the Optelian family of OMS mounting shelves, refer to the data sheet. All cards are single-slot width.

OMS card common specifications

Parameter	Value
Operating temperature (SC or LC)	-40 to 65°C (-40 to 149°F)
Relative Humidity (non-condensing)	5 to 95%
Optical connectors	LC/PC
Power supply and power consumption	-48V nominal; 2W
Dimensions	10.2 x 2.8 x 15.5 cm (4.0 x 1.1 x 6.1 in.)

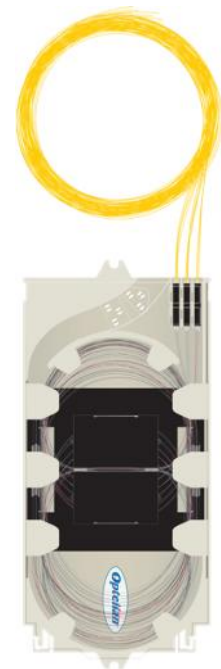


Splice trays

Optical devices are packaged in industry-standard outside plant (OSP) splice tray modules, such as FOOSC-B. Custom packaging options are also available. Splice tray modules are designed to be installed in any general OSP enclosure, such as cabinets or huts.

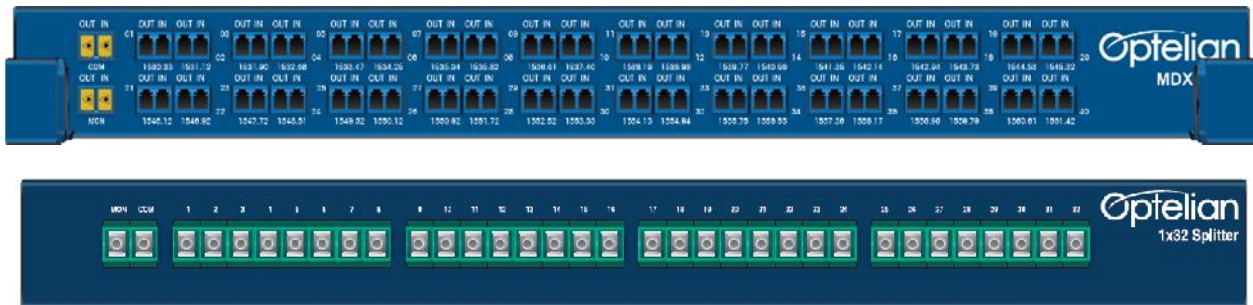
Splice tray common specifications

Parameter	Value
Operating temperature	-40 to 65°C (-40 to 149°F)
Relative Humidity (non-condensing)	5 to 95%
Length	3 meters
Connectors	None



Enclosed mounting shelves

Passive shelves are available for high-fanout power splitter application, and high-fanout DWDM MUX/DMX application. The shelves are enclosed metal units that mount in standard 19-inch and 23-inch racks. They have faceplate connectors for front access. Units are available in 1RU and 2RU height.



Enclosed shelf common specifications

Parameter	Value
Operating temperature (MDX shelves)	-5 to 65°C (-23 to 149°F)
Operating temperature (Splitter shelves)	-40 to 85°C (-40 to 185°F)
Relative Humidity (non-condensing)	5 to 95%
Connectors (MDX shelves)	LC
Dimensions, 1RU units (HxWxD)	4.3 x 43 x 23 cm (1.7 x 16.9 x 9 in.)

Product types

Optelian's passive optical transport solutions deliver a range of functionality via the physical formats described earlier in this document. The following functions are implemented within the orderable products described below. In descriptions below, all card-based modules (LGX, DMS, and OMS) are single-width, unless noted otherwise in individual product descriptions.

Management, monitoring and adaptation

Two modules are available to carry management Optical Supervisory Channel (OSC) traffic on a separate channel, without consuming one of the possible client channel wavelengths. Each module multiplexes and demultiplexes a dedicated 1510 nm channel over the common line fiber.

The OLM-1030 loopback module provides passive client-end demarcation of a line monitoring loop. OLM-1030 and the OLM-4400 active monitoring card together provide the end-to-end monitoring service described in the Monitoring and Protection datasheet.

Two passive blank adaptor cards are available to physically support insertion of LGX modules and DMS modules into the OMS family of active mounting shelves. Those permit any LGX or DMS module to be deployed in an unused slot of an OMS shelf.

OSC MUX-DMX – DMS - ordering information

Part Number	Description
1029-1100	OSC-1510, MDX-OSC DMS, 1/2-WIDE

OSC MUX-DMX – OMS - ordering information

Part Number	Description
1004-2600	MDX- OSC, 1510 nm

Optical link monitoring – LGX - ordering information

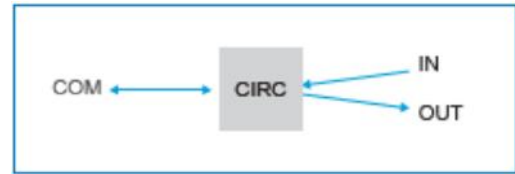
Part Number	Description
1015-0401	OLM-1030 LOOPBACK, 3 CKTS, LGX, LC

Shelf slot adapter – OMS - ordering information

Part Number	Description
1018-7130	OMS SLOT LGX ADAPTOR CARD
1018-7140	OMS SLOT DMS ADAPTOR CARD

Circulators

In one direction, circulators separate common fiber bidirectional traffic into separate fibers, each carrying unidirectional traffic. In the other direction, the traffic is combined. Circulators are deployed in single-fiber environments, for example with PON/FTTH.

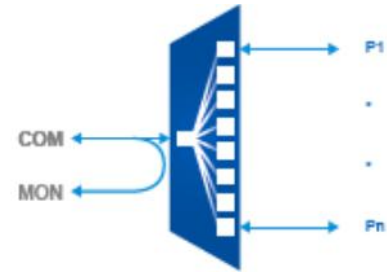


Circulator – OMS – ordering information

Part Number	Model	Description
1006-9800	MDX-CIRC	2-CCT BIDIRECTIONAL 3-PORT 1550 NM CIRCULATOR

Splitters

In one direction, splitters split the input from a common fiber and distribute it to the output ports. In the other direction they combine the individual ports' input onto the common output fiber. In both directions the entire spectrum is split or combined. Splitters are packaged in single-circuit single-common fiber modules, and in dual-circuit two individual common fiber modules.



Splitters – LGX - ordering information

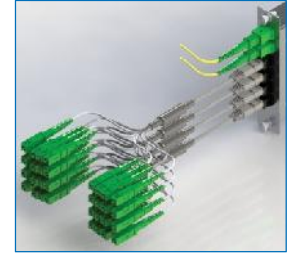
Part Number	Description
1023-1102	1X2 SPLITTER, SC/APC, LGX WITH 2% MONITOR
1023-1104	1X4 SPLITTER, SC/APC, LGX WITH 2% MONITOR
1023-1108	1X8 SPLITTER, SC/APC, LGX WITH 2% MONITOR
1023-1116	1X16 SPLITTER, SC/APC, LGX 2-WIDE WITH 2% MONITOR
1023-7102	1X2 SPLITTER,LC/UPC,LGX WITH 2% MONITOR
1023-7202	2-CCT 1X2 SPLITTER,LC/UPC,LGX WITH 2% MONITOR
1023-8100	1X2 SPLITTER, SC/APC, LGX
1023-8200	2-CCT 1X2 SPLITTER, SC/APC, LGX
1025-6702	2-CCT 1X2 SPLITTER,LC/APC,LGX WITH 2% MONITOR
1023-5116	1X16 SPLITTER, 8XMPO AND SC/APC, LGX WITH 2% MONITOR
1023-5124	1X24 SPLITTER, 8XMPO AND SC/APC, LGX WITH 2% MONITOR
1023-5132	1X32 SPLITTER, 8XMPO AND SC/APC, LGX WITH 2% MONITOR
1023-5164	1X64 SPLITTER, 8XMPO AND SC/APC, LGX WITH 2% MONITOR

Splitters – enclosed shelf - ordering information

Part Number	Description
1023-4116	1X 1x16 Splitter, SC/APC, 1RU rack mount with 2% monitor
1023-4132	1X 1x32 Splitter, SC/APC, 1RU rack mount with 2% monitor
1023-4164	1X 1x64 Splitter, SC/APC, 2RU rack mount with 2% monitor

MPO eight-fiber fanout cable assembly

These interface with LGX modules with MPO faceplate ports. Examples include the 1x16 MPO, 1x32 MPO and 1x64 MPO LGX splitter modules, as well as one CWDM MUX/DMX LGX module. They break out the individual client signals from the composite faceplate port.

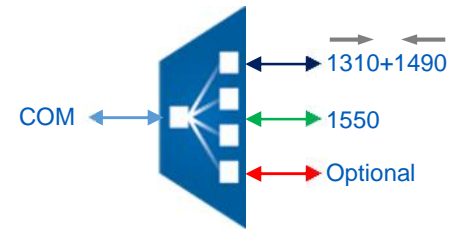


MPO cable assembly - ordering information

Part Number	Description
1024-1001	MPO male to SC/APC, 8 channel, 1.5 m low loss
1024-1002	MPO male to SC/APC, 8 channel, 2.5 m low loss
1024-1003	MPO male to SC/APC, 8 channel, 3.5 m low loss
1024-1004	MPO male to SC/APC, 8 channel, 5.5 m low loss
1024-1005	MPO male to SC/APC, 8 channel, 7.5 m low loss
1024-1006	MPO male to SC/APC, 8 channel, 10.5 m low loss

Basic WDM and FTTx/PON filters

Basic WDM filters multiplex or demultiplex over a common fiber a pair of specific wavelengths (1310 and 1550 nm). FTTx/PON filters multiplex or demultiplex one bidirectional interface (duplex voice and data with 1310 nm upstream and 1490 nm downstream) and a 1550 nm interface for video overlay. Options include an additional wavelength interface.



These are used for PON outside plant, including MSO transport. They are all packaged in the LGX format.

Basic WDM/FTTx/PON - LGX - ordering information

Part Number	Description
100-020-001	L-020, LGX Dual WDM (1310, 1550), 2 circuits, SC/PC
1006-9300	WFC-124-LCA, LGX FWDM (1310+1490, 1550, 1590 nm) 2 circuits, LC/APC
1010-7900	WFC-126-LCA, LGX FWDM (1310+1490, 1550, 1610 nm) 2 circuits, LC/APC
1010-8100	WFC-136-LCA, LGX FWDM (1310+1490, 1550, 1610 nm) 3 circuits, LC/APC
1025-4500	2-CH CWDM (1511, 1611), 1310/1490 & 1550, 2 CIRCUIT, LGX

CWDM filters

A range of products are available to deliver various types of CWDM filter functionality. Filters for 1, 2, 4, 8 and 16 channels (wavelengths) are available.

“MUX and/or DMX bidirectional” modules implement a filter for a full set of channels on a single common fiber. They can be deployed unidirectionally (all ports MUX, or all ports DMX) or bidirectionally (mixed MUX and DMX port configuration). All modules include a separate 1310 nm overlay port.

“MUX or DMX complementary” modules are single-circuit single-fiber filters provided in matched pairs, one module for mux, and its complement for demux. Insertion losses per channel are complimentary such that end-to-end mux-to-demux loss is the same for each channel on the fiber.

“MUX, DMX two-circuit combo” modules include a mux circuit with its common fiber, and a separate demux circuit with its common fiber, packaged in one single-width module. Insertion losses per channel are complimentary such that end-to-end mux-to-demux loss is the same for each wavelength on the fiber.

OADM modules multiplex and demultiplex a subset of channels on the common line. They exist in dual-common fiber and single-common fiber versions. Dual-fiber OADMs package a drop (DEMUX) of channels from the line, and separately package an add (MUX) of the same channels onto the line. Single-fiber OADMs have a single bidirectional common and express filter, permitting a wavelength to be either dropped or added uniquely on the line. In all cases, channels that are not dropped or added are expressed through.

CWDM MUX and/or DMX Bidirectional – LGX - ordering information

Part Number	Description
1002-3000	OMX-8, 8 CH CWDM MUX/DMX, 1310, MON,2-WIDE
1002-3100	OMX-4, 4 CH CWDM MUX/DMX, 1310, MON,2-WIDE
1002-9400	OMX-41, 4 CH CWDM MUX/DMX, 1310, MON,2-WIDE
1012-5100	L-MDX-8C4,1 CCT,2.5% TAP, LC
1025-4600	8-CH,CWDM,MUX-DMX,1471-1611 NM,LGX,1310 NM,2% MONITOR, MPO CONNECTOR

Note: 1025-4600 is dual-circuit, and utilizes MPO fanout cables as described in the Splitter section above.

CWDM MUX and/or DMX Bidirectional – OMS - ordering information

Part Number	Description
1004-8011	MDX-8C4 8 CH CWDM (1471 - 1611), +1310,, 2.5% bi-di monitor, LC/PC
1004-8115	MDX-4C4, 4 CH CWDM (1471, 1491, 1511, 1531) +1310, 2.5% bi-dir monitor, LC/PC

CWDM MUX and/or DMX Bidirectional – Splice Tray - ordering info

Part Number	Description
1025-4000	3-CHANNEL CWDM (1471,1491,1511) + 1310 &1550, FOSC B SPLICE TRAY

CWDM MUX, DMX complementary pair – LGX - ordering information

Part Number	Description
1022-1801	8-CH CWDM MUX, CH 1-8 (1271 - 1411 NM), LGX, 1550 NM, 2.5% BI-DIR MON
1022-1901	8-CH CWDM DEMUX, CH 1-8 (1271 - 1411 NM), LGX, 1550 NM, 2.5% BI-DIR MON
1025-6809	8-CH CWDM MUX, CH 9-16 (1471 - 1611 NM), LC/APC, LGX, 1310 NM, 2.5% BI-DIR MON
1025-7009	8-CH CWDM DEMUX, CH 9-16 (1471 - 1611 NM), LC/APC, LGX, 1310 NM, 2.5% BI-DIR MON
1022-1601	16-CH CWDM MUX, CH 1-16 (1271 - 1611 NM), LGX
1022-1701	16-CH CWDM DEMUX, CHANNELS 1-16 (1271 - 1611 NM), LGX

CWDM MUX, DMX complementary pair - OMS - ordering info

Part Number	Description
1005-9025	MUX-9C6,1 CCT,LC/PC
1005-8925	DMX-9C6,1 CCT,LC/PC
1006-8900	MUX-8C4, 8 CH CWDM MUX (1471 - 1611) +1310, 1 circuit, 2% uni-dir monitor, LC/PC
1006-9000	DMX-8C4, 8 CH CWDM DMX (1471 - 1611) +1310, 1 circuit, 2% uni-dir monitor, LC/PC

CWDM MUX, DMX complementary pair – Splice Tray - ordering info

Part Number	Description
1025-4700	8 CH, CWDM MUX (1471 to 1611 nm) +1310, 1 CIRCUIT, FOSC-B, 2.5% MONITOR
1025-4710	8 CH, CWDM DMX (1471 to, 1611 nm) +1310, 1 CIRCUIT, FOSC-B, 2.5% MONITOR
1025-8300	8 CH CWDM, MUX, 1431 to 1611, FOSC-B, 2.5% MON, WITH DWDM EXPANSION
1025-8400	8 CH CWDM, DEMUX, 1431 to1611, FOSC-B, 2.5% MON, WITH DWDM EXPANSION

CWDM MUX, DMX complementary 2-CCT combo – LGX - ordering info

Part Number	Description
1022-1829	8-CH,CWDM,MUX&DMX,1471-1611 NM,LGX,1310NM,2% MONITOR
1025-6929	8-CH,CWDM,MUX&DMX, CH 9-16 (1471-1611 NM), LC/APC, LGX, 1310 NM, 2.5% MON
1025-8500	8 CH CWDM, MUX&DMX, 1431-1611 NM, LGX , 2.5% MON, WITH DWDM EXPANSION
1027-0500	5-CH CWDM,1310NM,1550NM MUX&DMX,2% MONITOR,2 CCTS,LGX,LC

CWDM MUX, DMX complementary 2-CCT combo - DMS - ordering info

Part Number	Description
1025-5816	8-CH CWDM MUX&DMX,CH 9-16 (1471 to 1611 NM),PASSIVE DMS WITH 2% MON,1310

CWDM OADM, dual fiber – LGX - ordering information

Part Number	Description
1022-1109	1-CH CWDM OADM (1471 NM), LGX, 1310 NM, 2.5% BI-DIR MON
1022-1110	1-CH CWDM OADM (1491 NM), LGX, 1310 NM, 2.5% BI-DIR MON
1022-1111	1-CH CWDM OADM (1511 NM), LGX, 1310 NM, 2.5% BI-DIR MON
1022-1112	1-CH CWDM OADM (1531 NM), LGX, 1310 NM, 2.5% BI-DIR MON
1022-1113	1-CH CWDM OADM (1551 NM), LGX, 1310 NM, 2.5% BI-DIR MON
1022-1114	1-CH CWDM OADM (1571 NM), LGX, 1310 NM, 2.5% BI-DIR MON
1022-1115	1-CH CWDM OADM (1591 NM), LGX, 1310 NM, 2.5% BI-DIR MON
1022-1116	1-CH CWDM OADM (1611 NM), LGX, 1310 NM, 2.5% BI-DIR MON
1022-1209	2-CH CWDM OADM, CH 9-10 (1471 - 1491 NM), LGX, 1310 NM, 2.5% BI-DIR MON
1022-1210	2-CH CWDM OADM, CH 10-11 (1491 - 1511 NM), LGX, 1310 NM, 2.5% BI-DIR MON
1022-1211	2-CH CWDM OADM, CH 11-12 (1511 - 1531 NM), LGX, 1310 NM, 2.5% BI-DIR MON
1022-1212	2-CH CWDM OADM, CH 12-13 (1531 - 1551 NM), LGX, 1310 NM, 2.5% BI-DIR MON
1022-1213	2-CH CWDM OADM, CH 13-14 (1551 - 1571 NM), LGX, 1310 NM, 2.5% BI-DIR MON
1022-1214	2-CH CWDM OADM, CH 14-15 (1571 - 1591 NM), LGX, 1310 NM, 2.5% BI-DIR MON
1022-1215	2-CH CWDM OADM, CH 15-16 (1591 - 1611 NM), LGX, 1310 NM, 2.5% BI-DIR MON
1022-6001	2-CH CWDM OADM,(1471, 1491), LGX
1022-1409	4-CH CWDM OADM, CH 9-12 (1471 - 1531 NM), LGX, 1310 NM, 2.5% BI-DIR MON
1022-1413	4-CH CWDM OADM, CH 13-16 (1551 - 1611 NM), LGX, 1310 NM, 2.5% BI-DIR MON

CWDM OADM, dual fiber – DMS - ordering information

Part Number	Description
1025-5409	4-CH CWDM OADM, CH 9-12 (1471, 1491,1511, 1531 NM), PASSIVE DMS, 2% MON, 1310
1025-5413	4-CH CWDM OADM, CH 13-16 (1551, 1571, 1591, 1611 NM), PASSIVE DMS, 2% MON, 1310

CWDM OADM, single fiber – LGX - ordering information

Part Number	Description
1022-4101	2-CH CWDM 1-FIBER OADM, CH 1-2 (1271 - 1291 NM), LGX
1022-4103	2-CH CWDM 1-FIBER OADM, CH 3-4 (1311 - 1331 NM), LGX
1022-4105	2-CH CWDM 1-FIBER OADM, CH 5-6 (1351 - 1371 NM), LGX
1022-4107	2-CH CWDM 1-FIBER OADM, CH 7-8 (1391 - 1411 NM), LGX
1022-4109	2-CH CWDM 1-FIBER OADM, CH 9-10 (1471 - 1491 NM), LGX
1022-4111	2-CH CWDM 1-FIBER OADM, CH 11-12 (1511 - 1531 NM), LGX
1022-4113	2-CH CWDM 1-FIBER OADM, CH 13-14 (1551 - 1571 NM), LGX
1022-4115	2-CH CWDM 1-FIBER OADM, CH 15-16 (1591 - 1611 NM), LGX

DWDM filters

A range of products implements various types of DWDM filter functionality. Filters for 1, 2, 4, 8, 13, 40 and 80 wavelengths are available.

“MUX or DMX complementary” modules are single-circuit single-fiber filters provided in matched pairs, one module for mux, and its complement for demux. Insertion losses per channel are complimentary such that end-to-end mux-to-demux loss is the same for each channel on the fiber.

Terminal mux-demux products multiplex and demultiplex a full set of channels aggregated on a common line, with capacity ranging from 40 to 80 channels per unit. These are implemented in enclosed mounting shelves. Single line single circuit units exist that supports the operator’s choice of either 20 channels bidirectionally (MUX and DEMUX) or 40 channels unidirectionally (all MUX or all DEMUX) Other versions exist with a packaged combination of dual line fiber and dual circuits, supporting simultaneously all channels MUX and all channels DEMUX.

OADM modules multiplex and demultiplex a subset of channels on the common line. They exist in dual-common fiber and single-common fiber options. Dual-fiber OADMs package a drop (DEMUX) of channels from the line in one direction, and separately package an add (MUX) of the same channels onto the line. Single-fiber OADMs are packaged in splice tray formats; they have a single bidirectional common and express filter, permitting a wavelength to be either dropped or added uniquely on the line. In all cases, channels that are not dropped or added are expressed through.

Band OADMs are dual-common fiber modules that drop a composite of several channels per port and add a composite of the same channels from the add port. In all cases, channels that are not dropped or added are expressed through.

DWDM MUX, DMX complementary pair – LGX - ordering information

Part Number	Description
1022-3801	8-CH DWDM MUX, CH 1-8 (1530.33 - 1535.82 NM), LGX WITH 2% MONITOR
1022-3901	8-CH DWDM DEMUX, CH 1-8 (1530.33 - 1535.82 NM), LGX WITH 2% MONITOR
1022-3809	8-CH DWDM MUX, CH 9-16 (1536.61 - 1542.14 NM), LGX WITH 2% MONITOR
1022-3909	8-CH DWDM DEMUX, CH 9-16 (1536.61 - 1542.14 NM), LGX WITH 2% MONITOR
1022-3817	8-CH DWDM MUX, CH 17-24 (1542.94 - 1548.51 NM), LGX WITH 2% MONITOR
1022-3917	8-CH DWDM DEMUX, CH 17-24 (1542.94 - 1548.51 NM), LGX WITH 2% MONITOR
1022-3825	8-CH DWDM MUX, CH 25-32 (1549.32 - 1554.94 NM), LGX WITH 2% MONITOR
1022-3925	8-CH DWDM DEMUX, CH 25-32 (1549.32 - 1554.94 NM), LGX WITH 2% MONITOR
1022-3833	8-CH DWDM MUX, CH 33-40 (1555.75 - 1561.42 NM), LGX WITH 2% MONITOR
1022-3933	8-CH DWDM DEMUX, CH 33-40 (1555.75 - 1561.42 NM), LGX WITH 2% MONITOR
1017-7712	L-130,13 CH DWDM MUX, 153.33 – 1558.98, 1 CCT,3-WIDE,5% MON,SC
1017-7713	L-130,13 CH DWDM DEMUX, 153.33 – 1558.98, 1 CCT,3-WIDE,5% MON,SC

DWDM MUX, DMX complementary pair – OMS - ordering information

Part Number	Description
1005-9000	MUX-8D1 8-CH DWDM MUX with Express (1530.33 - 1535.82), 1 circuit, 2% uni-dir MON, LC
1005-8900	DMX-8D1 8-CH DWDM DMX with Express (1530.33 - 1535.82), 1 circuit, 2% uni-dir MON, LC
1005-9005	MUX-8D2 8-CH DWDM MUX with Express (1536.61 - 1542.14), 1 circuit, 2% uni-dir MON, LC
1005-8905	DMX-8D2 8-CH DWDM DMX with Express (1536.61 - 1542.14), 1 circuit, 2% uni-dir MON, LC
1005-9015	MUX-8D4 8-CH DWDM MUX with Express (1549.32 - 1554.94), 1 circuit, 2% uni-dir MON, LC
1005-8915	DMX-8D4 8-CH DWDM DMX with Express (1549.32 - 1554.94), 1 circuit, 2% uni-dir MON, LC
1005-9020	MUX-8D5 8-CH DWDM MUX with Express (1555.75- 1561.42), 1 circuit, 2% uni-dir MON, LC
1005-8920	DMX-8D5 8-CH DWDM DMX with Express (1555.75- 1561.42), 1 circuit, 2% uni-dir MON, LC
1006-4900	MUX-8D1A 8-CH DWDM MUX (1530.33 - 1535.82), 1 circuit, 2% MON, LC
1006-4800	DMX-8D1A 8-CH DWDM DMX (1530.33 - 1535.82), 1 circuit, 2% MON, LC
1007-1800	MUX-9D1A 9-CH DWDM MUX (1530.33 - 1536.61), for hybrid DWDM/CWDM Applications, 1 circuit, 2% MON, LC
1007-1900	DMX-9D1A 9-CH DWDM MUX (1530.33 - 1536.61), for hybrid DWDM/CWDM Applications, 1 circuit, 2% MON, LC

Note: the ten parts in the 1005 family above have common and express line interfaces (East-West), allowing for single fiber in-line MUX/DMX (add, drop and continue functionality), in addition to terminating MUX/DMX; this can be configured unidirectionally or bidirectionally

DWDM Terminal MUX, DMX – enclosed shelf - ordering information

Part Number	Description
1014-6700	MDX-4000,MUX/DMX,1RU,GAU,40CH,2%MON,LC
1025-6000	MDX-5000,MUX/DMX,1RU,FLATTOP,40CH,2%MON,LC
1014-6730	MDX-4200,MUX AND DMX,1RU,GAU,40CH,2%MON,84 LC
1025-6010	MDX-5200,MUX AND DMX,1RU,FLATTOP,40CH,2%MON, 84 LC
1027-0600	MDX-8200,MUX AND DMX,2RU,GAU,80CH,2%MON, LC

Note: MDX-4000 and MDX-5000 provide a single AAWG and a single common fiber supporting either unidirectional or bidirectional traffic configuration; all others provide dual AAWG and dual common fibers (simultaneous all IN/MUX and all OUT/DMX) in one package

DWDM OADM, dual fiber – LGX - ordering information

Part Number	Description				
1022-xxxx	n-CH DWDM OADM, CH z (yyyy.yy NM), LGX WITH 2% MON				
CH #	Wavelength (nm)	1-channel 1022-xxxx	2-channel 1022-xxxx	4-channel 1022-xxxx	8-channel 1022-xxxx
1	1530.33	2101	2201	2401	2801
2	1531.12	2102			
3	1531.90	2103	2203	2405	
4	1532.68	2104			
5	1533.47	2105	2205	2409	
6	1534.25	2106			
7	1535.04	2107	2207	2413	
8	1535.82	2108			
9	1536.61	2109	2209	2417	
10	1537.40	2110			
11	1538.19	2111	2211	2421	
12	1538.98	2112			
13	1539.77	2113	2213	2425	
14	1540.56	2114			
15	1541.35	2115	2215	2429	
16	1542.14	2116			
17	1542.94	2117	2217	2433	
18	1543.73	2118			
19	1544.53	2119	2219	2437	
20	1545.32	2120			
21	1546.12	2121	2221	2433	
22	1546.92	2122			
23	1547.72	2123	2223	2437	
24	1548.51	2124			
25	1549.32	2125	2225	2437	
26	1550.12	2126			
27	1550.92	2127	2227	2437	
28	1551.72	2128			
29	1552.52	2129	2229	2437	
30	1553.33	2130			
31	1554.13	2131	2231	2437	
32	1554.94	2132			
33	1555.75	2133	2233	2437	
34	1556.55	2134			
35	1557.36	2135	2235	2437	
36	1558.17	2136			
37	1558.90	2137	2237	2437	
38	1559.79	2138			
39	1560.61	2139	2239	2437	
40	1561.42	2140			

DWDM OADM, dual fiber – DMS - ordering information

Part Number	Description
1025-5131	1-CH DWDM OADM, CH 31 (1552.52 NM), DMS 1/2-WIDE WITH 2% MONITOR, 1310
1025-5132	1-CH DWDM OADM, CH 32 (1551.72 NM), DMS 1/2-WIDE WITH 2% MONITOR, 1310
1025-5133	1-CH DWDM OADM, CH 33 (1550.92 NM), DMS 1/2-WIDE WITH 2% MONITOR, 1310
1025-5134	1-CH DWDM OADM, CH 34 (1550.12 NM), DMS 1/2-WIDE WITH 2% MONITOR, 1310
1025-5136	1-CH DWDM OADM, CH 36 (1548.51 NM), DMS 1/2-WIDE WITH 2% MONITOR, 1310
1025-5137	1-CH DWDM OADM, CH 37 (1547.72 NM), DMS 1/2-WIDE WITH 2% MONITOR, 1310
1025-5138	1-CH DWDM OADM, CH 38 (1546.92 NM), DMS 1/2-WIDE WITH 2% MONITOR, 1310
1025-5139	1-CH DWDM OADM, CH 39 (1546.12 NM), DMS 1/2-WIDE WITH 2% MONITOR, 1310
1025-6434	4-CH DWDM OADM, CH 34-31 (1550.12, 1550.92, 1551.72, 1552.52NM), DMS WITH 2% MONITOR, 1310
1025-6439	4-CH DWDM OADM, CH 39-36 (1546.12, 1546.92, 1547.72, 1548.51NM), DMS WITH 2% MONITOR, 1310
1025-5839	8-CH DWDM OADM, CH 39-31 (1546.12, 1546.92, 1547.72, 1548.51, 1550.12, 1550.92, 1551.72, 1552.52NM), DMS WITH 2% MONITOR, 1310

DWDM OADM, dual fiber – splice tray - ordering information

Part Number	Description
1014-9901	TA-ODM-4D1, 1 CCT, FOSC B
1014-9902	TA-ODM-4D2, 1 CCT, FOSC B
1014-9903	TA-ODM-4D3, 1 CCT, FOSC B
1014-9904	TA-ODM-4D4, 1 CCT, FOSC B
1014-9905	TA-ODM-4D5, 1 CCT, FOSC B
1014-9906	TA-ODM-4D6, 1 CCT, FOSC B
1014-9907	TA-ODM-4D7, 1 CCT, FOSC B
1014-9908	TA-ODM-4D8, 1 CCT, FOSC B
1014-9909	TA-ODM-4D9, 1 CCT, FOSC B
1014-9910	TA-ODM-4D10, 1 CCT, FOSC B
1025-3609	DUAL 1-CH DWDM OADM (1536.61 NM),1625NM,FOSC B SPLICE TRAY WITH 2% MON
1025-3631	DUAL 1-CH DWDM OADM, CH 31 (1554.13 NM),1625NM,FOSC B SPLICE TRAY WITH 2% MON

DWDM OADM, single fiber – splice tray - ordering information

Part Number	Description
1014-0380	1-CH DWDM SINGLE FIBER OADM (1554.13 NM), TYCO FOSC 'B' SPLICE TRAY, 2% MONITOR
1014-0382	1-CH DWDM SINGLE FIBER OADM (1555.75 NM), TYCO FOSC 'B' SPLICE TRAY, 2% MONITOR
1014-0384	1-CH DWDM SINGLE FIBER OADM (1557.36 NM), TYCO FOSC 'B' SPLICE TRAY, 2% MONITOR
1014-0386	1-CH DWDM SINGLE FIBER OADM (1558.98 NM), TYCO FOSC 'B' SPLICE TRAY, 2% MONITOR

DWDM Band OADM, dual fiber – LGX - ordering information

Part Number	Description
1022-4401	4-CH DWDM BAND OADM, CH 1-4 (1530.33 - 1532.68 NM), LGX WITH 2% MONITOR
1022-4405	4-CH DWDM BAND OADM, CH 5-8 (1533.47 - 1535.82 NM), LGX WITH 2% MONITOR
1022-4409	4-CH DWDM BAND OADM, CH 9-12 (1536.61 - 1538.98 NM), LGX WITH 2% MONITOR
1022-4413	4-CH DWDM BAND OADM, CH 13-16 (1539.77 - 1542.14 NM), LGX WITH 2% MONITOR
1022-4417	4-CH DWDM BAND OADM, CH 17-20 (1542.94 - 1545.32 NM), LGX WITH 2% MONITOR
1022-4421	4-CH DWDM BAND OADM, CH 21-24 (1546.12 - 1548.51 NM), LGX WITH 2% MONITOR
1022-4425	4-CH DWDM BAND OADM, CH 25-28 (1549.32- 1551.72 NM), LGX WITH 2% MONITOR
1022-4429	4-CH DWDM BAND OADM, CH 29-32 (1552.52- 1554.94 NM), LGX WITH 2% MONITOR
1022-4433	4-CH DWDM BAND OADM, CH 33-36 (1555.75 - 1557.36 NM), LGX WITH 2% MONITOR
1022-4437	4-CH DWDM BAND OADM, CH 37-40 (1558.98 - 1561.42 NM), LGX WITH 2% MONITOR
1022-4801	8-CH DWDM BAND OADM, CH 1-8 (1530.33 - 1535.82 NM), LGX WITH 2% MONITOR
1022-4809	8-CH DWDM BAND OADM, CH 9-16 (1536.61 - 1542.14 NM), LGX WITH 2% MONITOR
1022-4817	8-CH DWDM BAND OADM, CH 17-24 (1542.94 - 1548.51 NM), LGX WITH 2% MONITOR

DWDM Band OADM, dual fiber – splice tray - ordering information

Part Number	Description
1025-3503	4-CH BAND DWDM OADM, CH 9-12 (1536.61 - 1538.98 NM), FOSC B, WITH 2% MONITORS
1025-3508	4-CH BAND DWDM OADM, CH 29-32 (1554.94 - 1552.52NM), FOSC B, WITH 2% MONITORS

For additional information

This document serves as a product catalogue that introduces the Optelian offer. Additional detailed product information, such as faceplate illustrations and technical specifications, are available. Your Optelian account representative can assist you in providing additional detail.

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