

## Product Overview

### Modular Passive CWDM OADM Multiplexers (Cassettes)



#### Description

Getting the most out of your network is critical in today's capital-constrained environment. Deploying dedicated fiber runs to every location is both impractical and expensive so reaching as many customers as possible from your existing fiber plant is critical to your success as a network operator. With MICROSENS' line of low-cost Optical Add/Drop Multiplexers (OADMs), you can aggregate traffic from multiple locations and deploy service to any customer without disrupting existing traffic. MICROSENS provides a broad line of OADM solutions for any network environment and any channel count. Whether you need to add or drop a single wavelength or multiple wavelengths in only one direction or both east and west, or whether you have a dual fiber network or only single, MICROSENS has the solution for you.

With up to four OADM modules hosted in a single 1RU enclosure, we provide a high density, low cost platform in the least amount of space to minimize the impact on your operations and your bottom line.

The MICROSENS solution is based on a 1RU passive chassis which can hold a mix of various elements such as Optical Multiplexers and OADMs. The OADM modules support either 1-, 2-, 4- or 8 channel add/drop capability on dual fiber spans covering the S- and C-bands from 1271 nm to 1611 nm. For single fiber configuration, the OADMs support 1-, 2- or 4-channels of add/drop and can be uni- or bi-directional. OADMs can be one-degree adding and dropping traffic from a single side, or two-degree adding and dropping traffic in both the east and west directions. All OADMs are designed for operation in Extended Temperature Range (ETR) environments from -40°C to +65°C.

#### Properties

- 1-, 2-, 4- or 8-channel add/drop modules to match your network requirements
- Supports both uni- and bi-directional traffic
- Solutions for both single and dual fiber spans
- Dense footprint with 4 modules hosted in 1RU
- Extended Temperature Range (ETR) -40°C to +65°C — supported on all modules
- Completely passive, no power or maintenance required
- Aggregation of multiple antenna sites for Mobile Backhaul (MBH) /Mobile Fronthaul (MFH)

## Order Information

| Description   | Article Number        |
|---|-----------------------|
| 1 Channel single sided CWDM OADM "Add/Drop to/from Line", Extended Temperature Range (-40 to 65°C)  | <b>MS430741MX</b>     |
| 2 Channel single sided CWDM OADM "Add/Drop to/from Line", dual sided, ETR (-40 to 65°C)   | <b>MS430742MX</b>     |
| 4 Channel single sided CWDM OADM "Add/Drop to/from Line", dual sided, ETR (-40 to 65°C)   | <b>MS430744MX</b>     |
| 8 Channel single sided CWDM OADM "Add/Drop to/from Line", dual sided, ETR (-40 to 65°C)   | <b>MS430748MX</b>     |
| 1 Channel CWDM OADM, dual sided, ETR (-40 to 65°C)  | <b>MS430741MX-DS</b>  |
| 2 Channel CWDM OADM, dual sided, ETR (-40 to 65°C)  | <b>MS430742MX-DS</b>  |
| 4 Channel CWDM OADM, dual sided, ETR (-40 to 65°C)  | <b>MS430744MX-DS</b>  |
| 1 Channel Pair single sided CWDM OADM "Add/Drop to/from Line", (Pair 5), Adds A lambda , Drops B-lambda , Single Fiber, ETR (-40 to 65°C)       | <b>MS430741MXSF1A</b> |
| 1 Channel Pair single sided CWDM OADM "Add/Drop to/from Line", (Pair 5), Adds B lambda , Drops A-lambda , Single Fiber, ETR (-40 to 65°C)       | <b>MS430741MXSF1B</b> |
| 2 Channel Pair single sided CWDM OADM "Add/Drop to/from Line", (Pairs 5-6), Adds A lambdas , Drops B-lambdas , Single Fiber, ETR (-40 to 65°C)  | <b>MS430742MXSF1A</b> |
| 2 Channel Pair single sided CWDM OADM "Add/Drop to/from Line", (Pairs 5-6), Adds B lambdas , Drops A-lambdas , Single Fiber, ETR (-40 to 65°C)  | <b>MS430742MXSF1B</b> |
| 4 Channel Pair single sided CWDM OADM "Add/Drop to/from Line", (Pairs 5-8), Adds AB lambdas , Drops A-lambdas , Single Fiber, ETR (-40 to 65°C) | <b>MS430744MXSF1A</b> |
| 4 Channel Pair single sided CWDM OADM "Add/Drop to/from Line", (Pairs 5-8), Adds B lambdas , Drops A-lambdas , Single Fiber, ETR (-40 to 65°C)  | <b>MS430744MXSF1B</b> |
| 1 Channel Pair CWDM OADM starting Pair 5, dual sided, Single Fiber, Extended Temperature Range  | <b>MS430741MXSF2</b>  |
| 2 Channel Pairs CWDM OADM starting Pair 5, dual sided, Single Fiber, Extended Temperature Range   | <b>MS430742MXSF2</b>  |
| 4 Channel Pairs CWDM OADM starting Pair 5, dual sided, Single Fiber, Extended Temperature Range   | <b>MS430744MXSF2</b>  |
| <b>Chassis</b>  |                       |
| Optical Passive Rack, 1HU, 4 Cartridges capacity, Extended Temperature Range (-40 to 65°C)  | <b>MS430731M</b>      |

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