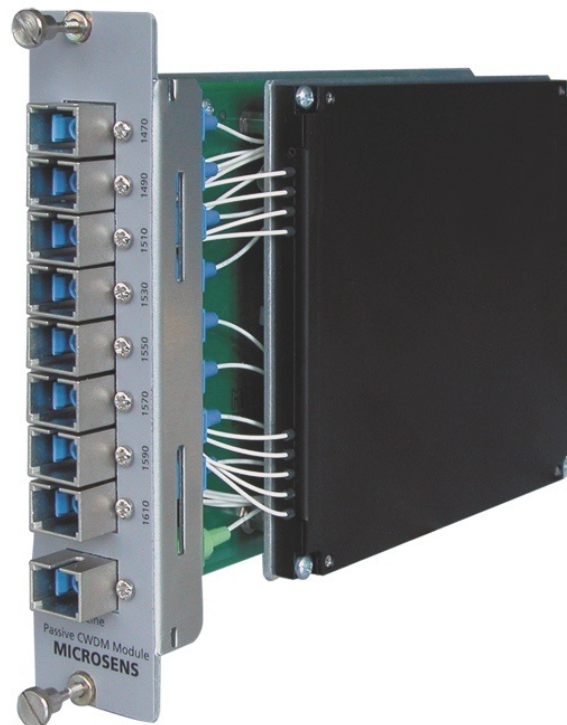


## Product Overview

### Passive 8 Channel CWDM MUX/DeMUX Access Module



## Description

By using passive multiplexers, several optical channels of different wavelengths can be combined, which will allow multiple services to be transmitted together via fiber without interference. What makes this possible is the fact that different light colours (wavelengths) do not affect each other. For transmission, light colours are multiplexed onto an fiber using a wavelength-specific filter (multiplexing). At the other (receiving) end of the line, the wavelengths are divided again, or rather, demultiplexed. Hence, any transmission line consists of a multiplexer and a demultiplexer.

The passive multiplexer and demultiplexer modules are working with the CWDM grid according ITU G.694.2 standard. The multiplexer/demultiplexer rack modules are part of a wide product range of functional modules for installation in modular rack systems from MICROSENS. In addition to desktop housings, users can select a 19" chassis with up to 12 slots. When using multi-slot chassis, the converter may be combined with any other modules from the Enterprise Access family. In addition, the MICROSENS product portfolio offers active converters for optical or electrical/optical adaptation of data channels to the appropriate wavelengths and required ranges.

Using WDM as transmission technology, network operators can build an infrastructure that may be expanded depending on need. In addition, the

## Properties

- Multiplying transmission capacities of fiber connections
- Combining different services on one line
- Optimised optical construction for maximum distances
- Highest flexibility due to combination with active MICROSENS modules and CWDM option
- No power supply necessary

capacities in all sub-areas of the network are expandable. This represents an advantage no other technology can provide. Using passive multiplexers is of interest for cable network operators, too. This technology will allow providing additional services such as combining bi-directional data services with uni-directional TV transmission without any problem, while using the existing infrastructure.

## Order Information

Description	Article Number
8 Channel CWDM Multiplexer (1470 -1610nm) Module for MS4160xx Access Chassis	<b>MS416410M-22</b>
8 Channel CWDM Demultiplexer (1470 - 1610nm) Module for MS4160xx Access Chassis	<b>MS416411M-22</b>
8+1 Channel CWDM Multiplexer (1310nm Express Channel and 8x CWDM 1470 – 1610nm) Module for MS4160xx Access Chassis	<b>MS416412M-22</b>
8+1 Channel CWDM Demultiplexer (1310nm Express and 8x CWDM 1470 – 1610nm) Module for MS4160xx Access Chassis	<b>MS416413M-22</b>

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