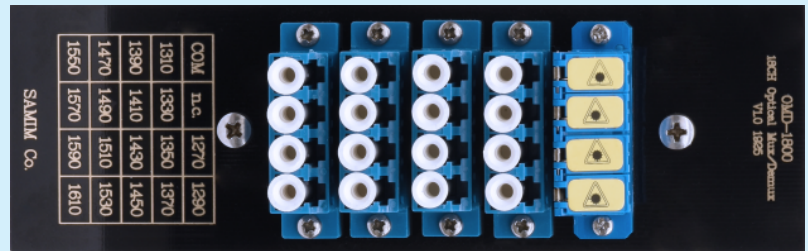


OMD-1800

18 Channel CWDM Optical Mux/Demux

2024 Datasheet



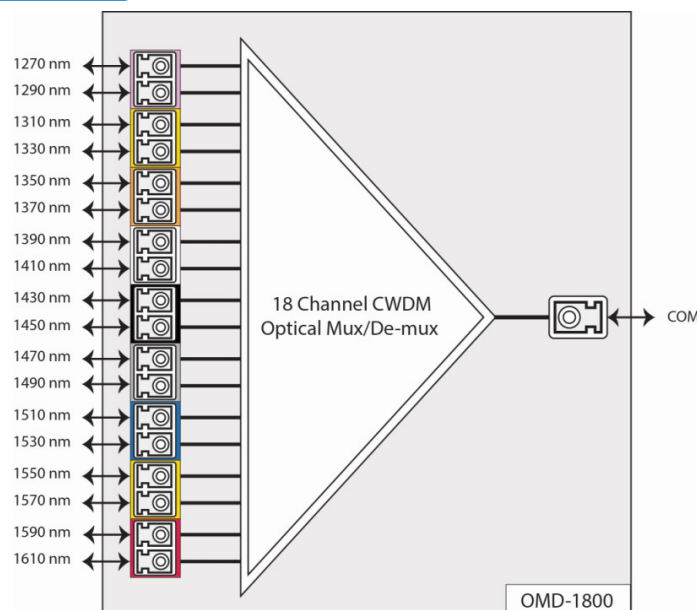
The OMD-1800, as a CWDM optical mux and demux, is a bidirectional passive optical multiplexer and de-multiplexer, allowing multiple optical signals at different wavelengths to pass through a single optical fiber link.

It combines up to 18 different wavelengths from different optical fibers into a single optical fiber. Also, it separates up to 18 different wavelength signals from a single optical fiber into 18 separate optical fibers. This product is passive in operation with low insertion loss. The user can install the module in Samim 3RU frames beside fiber converters for proper organization and cabling.

Key Features

- 18 channels passive optical mux/demux
- Support various type of signals such as 3G/HD/SD-SDI, AES, DVB-ASI, Ethernet, etc.
- Compliant with ITU-T G694.2 standard
- LC/UPC connectors

Block Diagram



Specifications

Input / Output		Performance	
Signal type	3G/HD/SD-SDI, AES, DVB-ASI, Ethernet, etc.	Channel Insertion Loss	<2.0 dB
Standard	ITU-T G694.2	Return Loss	>45 dB
Number of channels	18	Directivity	>55 dB
Wavelengths	1270 nm, 1290 nm, 1310 nm, 1330 nm, 1350 nm, 1370 nm, 1390 nm, 1410 nm, 1430 nm, 1450 nm, 1470 nm, 1490 nm, 1510 nm, 1530 nm, 1550 nm, 1570 nm, 1590 nm, 1610 nm	Adjacent Channel Isolation	>30 dB
		Non-Adjacent Channel Isolation	>40 dB
Connectors	LC/UPC	Maximum Power Handling	300 mW
Environment			
		Operating Temperature	-5 °C to +70 °C

System Requirements

Type	Product	Description
Frame	SRM-0655	3RU Frame with Controller

Ordering Information

Order Code	Description	Type
OMD-1800	18-Channel CWDM Optical Mux/Demux with integrated back-panel (compatible with SRM-0655)	Main Board + Integrated Back-panel

With over two decades of extensive experience in the broadcast and media industry, Samim Group has emerged as a rapidly growing manufacturer and developer of professional-grade hardware and software solutions that cater to Broadcast Production Infrastructure, Intercom Systems, and Media Business Automation. We remain attuned to the latest technological advancements, ensuring we deliver high-standard solutions and products that can be marketed globally.

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