

DATASHEET 5.3

H-OADM2X4-xxx-yyy

4-channel DWDM 2-way OADM with Monitor ports

OVERVIEW

The H-OADM2x4-xxx-yyy units are a range of passive 4 channel DWDM protocol transparent dual ended OADM units. They operate with 100GHz spacing and all DWDM wavelength that are not terminated will pass through the units. Channels operate in the standard C-band in dual fiber working configuration.

Networks can be built with H-OADM2x4-xxx-yyy filters only, in combination with H-MD-09-xxx-yyy or H-MD-16-xxx-yyy Mux/ Demux filters or with H-OADM1x4-xxx-yyy OADM filters in a wide

variety of combinations. The H-Series supports the industrial temperature range of -40oC to +85oC (-40°F to +185°F) which gives an extended application range into sites without temperature control.

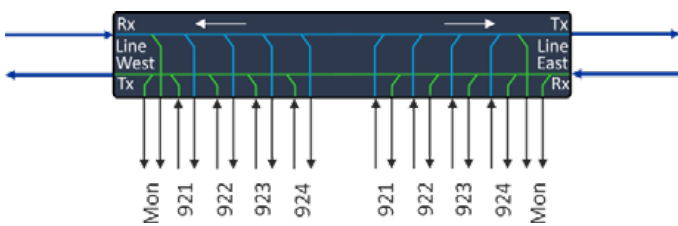
The H-Series filters are mounted in a 1 RU mounting bracket solution, and the filter module sizes vary depending on type of filter.

FUNCTIONAL DESCRIPTION

All non-terminated DWDM wavelengths will be passed through.

Monitor ports are used to analyze outgoing and incoming line signals. Compliant to ITU-T G.694.1

FUNCTIONAL OVERVIEW AND PORT DESCRIPTION



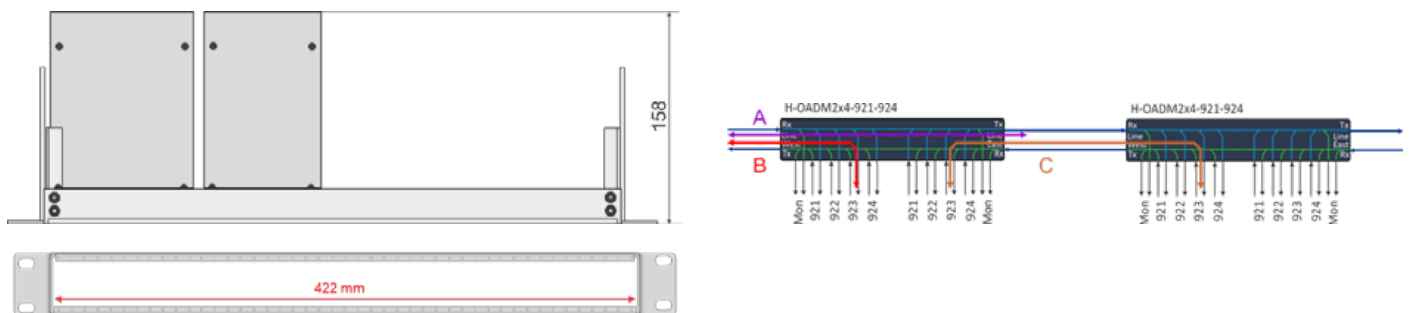
Line Rx	921 Tx	923 Rx	Line Tx	921 Rx	923 Tx
Line Tx	921 Rx	923 Tx	Line Rx	921 Tx	923 Rx
Mon Rx	922 Tx	924 Rx	Mon Tx	922 Rx	924 Tx
Mon Tx	922 Rx	924 Tx	Mon Rx	922 Tx	924 Rx
West			East		

The port allocation and overlay example is for H-OADM2x4-921-924. Note row dependent location of Tx and Rx ports.

TECHNICAL SPECIFICATIONS

Parameter	Min	Max
Passband Line <=> Line	1500 nm	1600 nm
Channels	See ordering information table	
Channel spacing	ITU±0.11 nm	
Insertion loss, pass-through E-W (A)	2.9 dB typical	3.2 dB max
Add/drop loss (B)	2.2 dB typical	2.5 dB max
Link loss, per channel (C)	3.2 dB typical	3.5 dB max
3.5 dB max	18 dB	22 dB
Isolation, adjacent channel	28 dB	
Isolation, non-adjacent channel	40 dB	
Ripple, passband	Ripple, passband	
Directivity	45 dB	
Return loss	40 dB	
Polarization dependent loss	0.2 dB	
Polarization mode dispersion	0.20 ps	
Operating temperature	-40oC	+85oC
Connector type	LC/UPC	
Module width	84 mm	
Mounting bracket	H-Chassi-1RU (19"), 422mm slot width	
Mounting depth (flush mount)	158mm	

Note! A typical loss value is to be seen as a value that ~90% of a population has at beginning of life and at room temperature. The max value is the guaranteed worst-case value over time and over temperature.



ORDERING INFORMATION

The H-OADM2x4-xxx-yyy units are available in 10 different versions depending on desired channel plan. The table below shows the part numbers and a short description..

Part number	Description
H-OADM2x4-921-924	H-Series: 4ch DWDM 2-way OADM + Mon-port, 192.1 to 192.4THz, 84mm, LC/UPC
H-OADM2x4-925-928	H-Series: 4ch DWDM 2-way OADM + Mon-port, 192.5 to 192.8THz, 84mm, LC/UPC
H-OADM2x4-929-932	H-Series: 4ch DWDM 2-way OADM + Mon-port, 192.9 to 193.2THz, 84mm, LC/UPC
H-OADM2x4-933-936	H-Series: 4ch DWDM 1-way OADM + Mon-port, 193.3 to 193.6THz, 65mm, LC/UPC
H-OADM2x4-937-940	H-Series: 4ch DWDM 1-way OADM + Mon-port, 193.7 to 194.0THz, 65mm, LC/UPC
H-OADM2x4-941-944	H-Series: 4ch DWDM 1-way OADM + Mon-port, 194.1 to 194.4THz, 65mm, LC/UPC
H-OADM2x4-945-948	H-Series: 4ch DWDM 1-way OADM + Mon-port, 194.5 to 194.8THz, 65mm, LC/UPC
H-OADM2x4-949-952	H-Series: 4ch DWDM 1-way OADM + Mon-port, 194.9 to 195.2THz, 65mm, LC/UPC
H-OADM2x4-953-956	H-Series: 4ch DWDM 1-way OADM + Mon-port, 195.3 to 195.6THz, 65mm, LC/UPC
H-OADM2x4-957-960	H-Series: 4ch DWDM 1-way OADM + Mon-port, 195.7 to 196.0THz, 65mm, LC/UPC