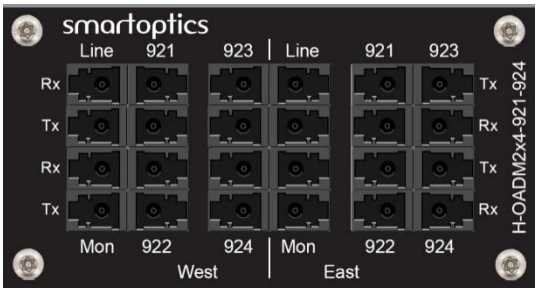
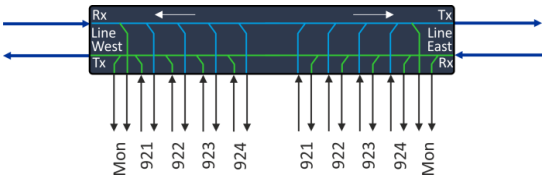
H-OADM2X4-xxx-yyy

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.

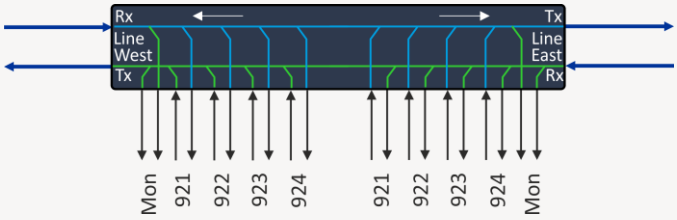
Networks can be built with H-OADM2x4-xxx-yyy filters only, in combination with H-MD-09-xxx-yyy or H-MD-16-xxx-yyy Mux/Demux filters or with H-OADM1x4-xxx-yyy OADM filters in a wide variety of combinations. The H-Series supports the industrial temperature range of -40ºC to +85ºC (-40°F to +185°F) which gives an extended application range into sites without temperature control.

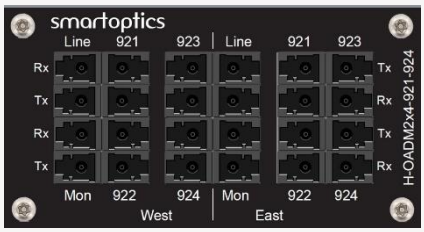
The H-Series filters are mounted in a 1 RU mounting bracket solution, and the filter module sizes vary depending on type of filter.

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





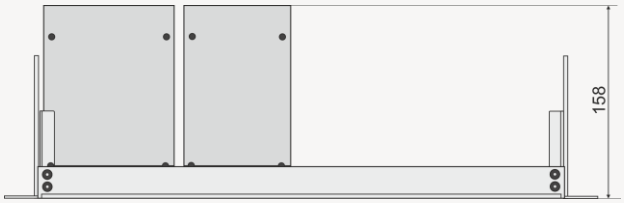
Line Rx	921 Tx	923 Rx	Line Tx	921 Rx	923 Tx
Line Tx	921 Rx	923 Tx	Line Rx	921 Tx	923 Rx
Mon Rx	922 Tx	924 Rx	Mon Tx	922 Rx	924 Tx
Mon Tx	922 Rx	924 Tx	Mon Rx	922 Tx	924 Rx
West			East		

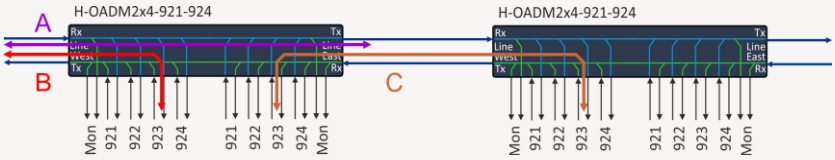
The port allocation and overlay example is for H-OADM2x4-921-924. Note column dependent location of Tx and Rx ports.

TECHNICAL SPECIFICATIONS

Parameter	C-temp conditions	I-temp Conditions
Passband Line ⇔ Line	1500nm to 1600nm	⇐
Channels	See ordering information table	⇐
Channel spacing	100 GHz	⇐
Channel passband	ITU±0.11 nm	⇐
Insertion loss, pass-through E-W (A)	Typical 2.7dB Max 3.0dB	Typical 2.9dB Max 3.2dB
Add/drop loss (B)	Typical 2.0dB Max 2.3dB	Typical 2.2dB Max 2.5dB
Link loss, per channel (C)	Typical 3.0dB Max 3.3dB	Typical 3.2dB Max 3.5dB
Insertion loss, monitor	18dB to 22dB	⇐
Isolation, adjacent channel	Min 28dB	⇐
Isolation, non-adjacent channel	Min 40dB	⇐
Ripple, passband	Max 0.5dB	⇐
Directivity	Min 45dB	⇐
Return loss	Min 40dB	⇐
Polarization dependent loss	Max 0.2dB	⇐
Polarization mode dispersion	Max 0.20ps	⇐
Operating temperature	0ºC to +70ºC	-40ºC to +85ºC
Storage temperature	-40ºC to +85ºC	⇐
Max optical power	Max 500mW	⇐
Connector type	LC/UPC	⇐
Module width	84 mm	⇐

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.





ORDER INFORMATION

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 2-way OADM + Mon-port, 193.3 to 193.6THz, 84mm, LC/UPC
H-OADM2x4-937-940	H-Series: 4ch DWDM 2-way OADM + Mon-port, 193.7 to 194.0THz, 84mm, LC/UPC
H-OADM2x4-941-944	H-Series: 4ch DWDM 2-way OADM + Mon-port, 194.1 to 194.4THz, 84mm, LC/UPC
H-OADM2x4-945-948	H-Series: 4ch DWDM 2-way OADM + Mon-port, 194.5 to 194.8THz, 84mm, LC/UPC
H-OADM2x4-949-952	H-Series: 4ch DWDM 2-way OADM + Mon-port, 194.9 to 195.2THz, 84mm, LC/UPC
H-OADM2x4-953-956	H-Series: 4ch DWDM 2-way OADM + Mon-port, 195.3 to 195.6THz, 84mm, LC/UPC
H-OADM2x4-957-960	H-Series: 4ch DWDM 2-way OADM + Mon-port, 195.7 to 196.0THz, 84mm, LC/UPC