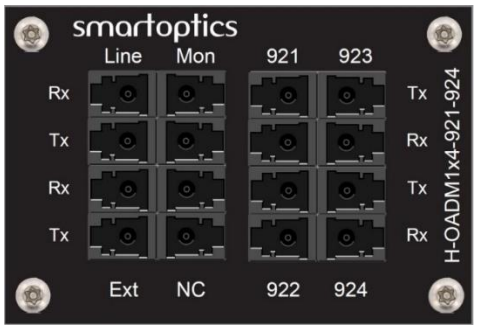
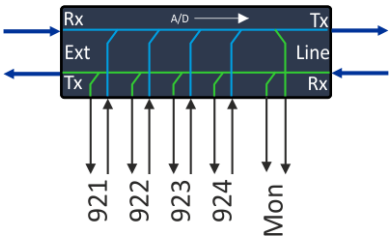
H-OADM1X4-xxx-yyy

4-channel DWDM 1-way OADM with Monitor ports





OVERVIEW

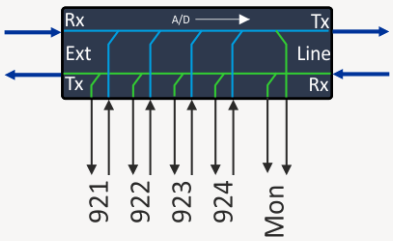
The H-OADM1x4-xxx-yyy is a one-sided 4ch DWDM add/drop filter. The filter has four add/drop ports, one Line port and one Extension port. The Line-port shall always be directed inwards the connection. Channels outside the add/drop channel bands are glassed through the filter. Networks can be built with H-OADM1x4-xxx-yyy filters only, in combination with H-MD-09-xxx-yyy or H-MD-16-xxx-yyy Mux/Demux 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.

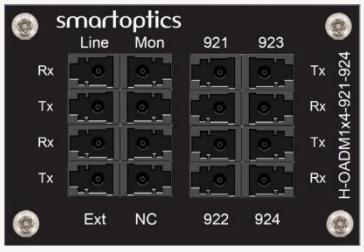
The monitor ports (Mon) tap off 1% of the transmitted and received Line signal. This provides the ability to monitor the channel power levels via a connected Optical Channel Monitoring (OCM) device or an optical spectrum analyzer. The DWDM channels are compliant with ITU-T G.694.1.

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 OVERVIEW AND PORT DESCRIPTION

Signals entering the filter are denoted “Rx”. Signals exiting the filter are denoted “Tx”.
The Monitor ports are both Tx-ports, but “Mon Tx” refers to the Ext Tx port while “Mon Rx” refers to Ext Rx port.





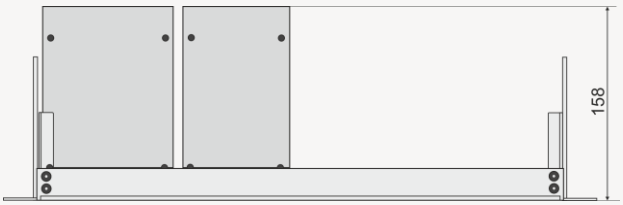
Line Rx	Mon Ext Tx	921 Rx	923 Tx
Line Tx	Mon Ext Rx	921 Tx	923 Rx
Ext Rx	NC	922 Rx	924 Tx
Ext Tx	NC	922 Tx	924 Rx

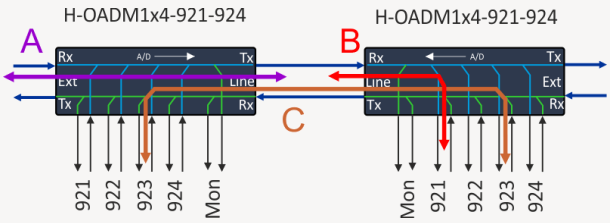
The port allocation and overlay example is for H-OADM1X4-921-924. Note row dependent location of Tx and Rx ports.

TECHNICAL SPECIFICATIONS

Parameter	C-temp conditions	I-temp Conditions
Passband Ext ⇔ Line	1500nm to 1600nm	⇐
Channels	See ordering information table	⇐
Channel spacing	100GHz	⇐
Channel passband	ITU±0.11nm	⇐
Insertion loss, pass-through E-W (A)	Typical 1.2dB Max 1.6dB	Typical 1.6dB Max 1.8dB
Add/drop loss (B)	Typical 2.0dB Max 2.3dB	Typical 2.2dB Max 2.5dB
Link loss, per channel (C)	Typical 3.1dB 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	⇐
Connector type	LC/UPC	⇐
Operating temperature	0°C to +70°C	-40°C to +85°C
Storage temperature	-40°C to +85°C	⇐
Max optical power	Max 500mW	⇐
Module width	65 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-OADM1x4-921-924	H-Series: 4ch DWDM 1-way OADM + Mon-port, 192.1 to 192.4THz, 65mm, LC/UPC
H-OADM1x4-925-928	H-Series: 4ch DWDM 1-way OADM + Mon-port, 192.5 to 192.8THz, 65mm, LC/UPC
H-OADM1x4-929-932	H-Series: 4ch DWDM 1-way OADM + Mon-port, 192.9 to 193.2THz, 65mm, LC/UPC
H-OADM1x4-933-936	H-Series: 4ch DWDM 1-way OADM + Mon-port, 193.3 to 193.6THz, 65mm, LC/UPC
H-OADM1x4-937-940	H-Series: 4ch DWDM 1-way OADM + Mon-port, 193.7 to 194.0THz, 65mm, LC/UPC
H-OADM1x4-941-944	H-Series: 4ch DWDM 1-way OADM + Mon-port, 194.1 to 194.4THz, 65mm, LC/UPC
H-OADM1x4-945-948	H-Series: 4ch DWDM 1-way OADM + Mon-port, 194.5 to 194.8THz, 65mm, LC/UPC
H-OADM1x4-949-952	H-Series: 4ch DWDM 1-way OADM + Mon-port, 194.9 to 195.2THz, 65mm, LC/UPC
H-OADM1x4-953-956	H-Series: 4ch DWDM 1-way OADM + Mon-port, 195.3 to 195.6THz, 65mm, LC/UPC
H-OADM1x4-957-960	H-Series: 4ch DWDM 1-way OADM + Mon-port, 195.7 to 196.0THz, 65mm, LC/UPC