INDEPENDENT
DATA SOLUTIONS

smartoptics

DATASHEET

H-MD-32-9140-9605

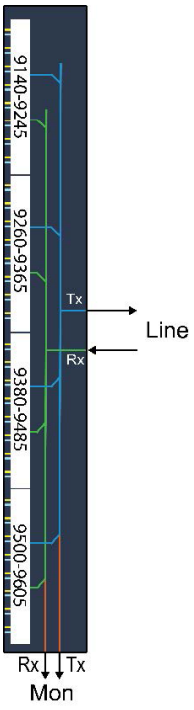
32-channel DWDM Mux/Demux, 150GHz, with Monitor ports

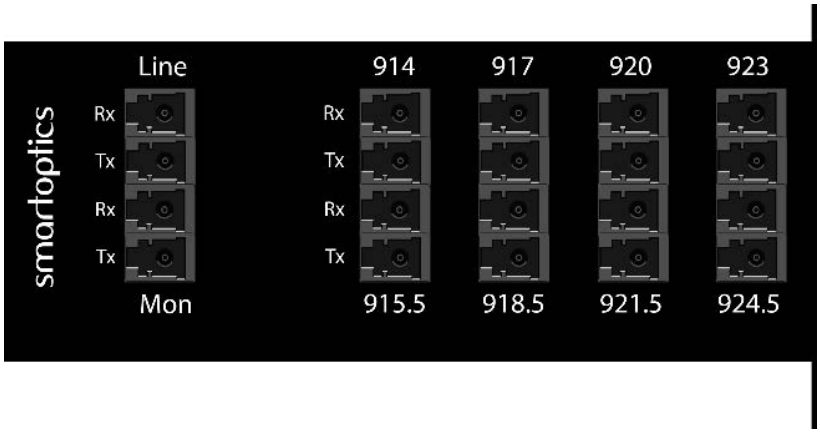
OVERVIEW

The H-MD-32-921-960 filter is a 32-channel DWDM protocol transparent Mux/Demux unit in accordance with 150GHz grid. The channels operate in the standard C-band in dual fiber working configuration. The H-MD-32-9140-9605 has two Monitor ports that 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 H-MD-32-9140-9605 is based on athermal AWG technology and is totally passive. This technology is restricted to -5 to +65oC operating temperature.

FUNCTIONAL OVERVIEW AND PORT DESCRIPTION

Client and Line signals entering the filter is denoted “Rx”.
Client and Line signals exiting the filter is denoted “Tx”.
The monitor ports tap off 1% (18 - 22dB) of the line signal.
The monitor port from transmitted line signal is denoted “Tx”.
The monitor port from received line signal is denoted “Rx”.





TECHNICAL SPECIFICATIONS

Parameter	
Channels	191.4 to 196.05 THz
Channel spacing	150Ghz
Channel passband 1.0dB	100GHz
Channel passband 3.0dB	150GHz
Insertion loss, per channel (ch Rx -> Line Tx)	Max 6.0dB
Insertion loss, Line Rx -> Mon Rx	18dB to 22dB
Insertion loss, Channel Rx -> Mon Tx	28dB
Isolation, adjacent channel [1)]	Min 9dB
Isolation, non-adjacent channel [2)]	Min 30dB
Ripple, passband	Max 0.5dB
Return loss	Min 40dB
Chromatic dispersion	Min -20ps/nm Max 20ps/nm
Polarization mode dispersion	Max 1.0ps
Connector type	LC/UPC
Dimensions	1RU height, 19” rack mount
Operating temperature	-5 to + 65 °C
Storage temperature	-40 to + 85 °C
Max optical power	Max 24dBm (251mW)

ORDERING INFORMATION

Part number	Description
H-MD-32-9140-9605	H-Series: 1RU 19”, 32ch, DWDM Mux/Demux + Mon-port, 191.4-196.05THz, Insertion-loss channel=6.0dB, LC/UPC

TECHNICAL SPECIFICATIONS

PRODUCT CONFIGURATION	32 channel DWDM open line system for metro DWDM, DCI and dark fibre connectivity. **Supported encodings:** - Coherent 100G-800G (QPSK/8QAM/16QAM) **Supported protocols:** - 100/200/400/800G Ethernet - Other protocols may be supported, contact Smartoptics for more information.
FRONT SIDE CONNECTIONS	1 x RS-232 serial port 1 x RJ-45 Local craft 10/100/1000 Base-T 1 x SFP port for OSC/OTDR All optical ports are of LC connector type 32 x DWDM client channels D914 to D960.5 1 x Line input/output port 1 x 1510nm OSC port 1 x 1625nm external OTDR port
VISUAL INDICATORS	Status LED Power & Alarm status Client LED: 32 x individual client Tx/Rx Line LED: Line Tx/Rx OSC LED:OSC Tx/Rx
REAR SIDE CONNECTIONS	Management and console ports 4 x RJ45 Management ports 10/100/1000 Base-T 1 x SFP Management port 1000 Base-X **2 x Power supplies:** Single/dual feeding. Hot swappable. **1 x Fan unit:** Redundant plugin. Hot swappable.
MANAGEMENT	CLI, SSH, SNMPv2c, SNMPv3, NTP, SFTP, Syslog, RADIUS, TACACS+ gNMI from R11.x
SOFTWARE UPGRADES	Traffic hitless software upgrades
DIMENSIONS	Size (WxDxH) 440mm x 510mm x 1RU 17.3” x 20” x 1RU **Weight:** 13 Kg / 28.7 lbs.
EYE SAFETY	Laser safety class 1

** The information in this document is valid from release R10.2.1

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