

## ADD-DWDM-MUX-8D-21-28

8 Channel DWDM MUX (Duplex) CARTRIDGE, Channels 21-28, with Monitor Ports and LC Connector

### Features

- Enables users to increase bandwidth of existing fibre network by up to 8 times, without additional fibre links
- Supports a range of data rates, up to 10Gbit/s
- Low insertion loss; typically 3.1dB
- Fully passive (no power or cooling required)
- High density 1RU size
- Supports G.694.1 compliant DWDM Channels

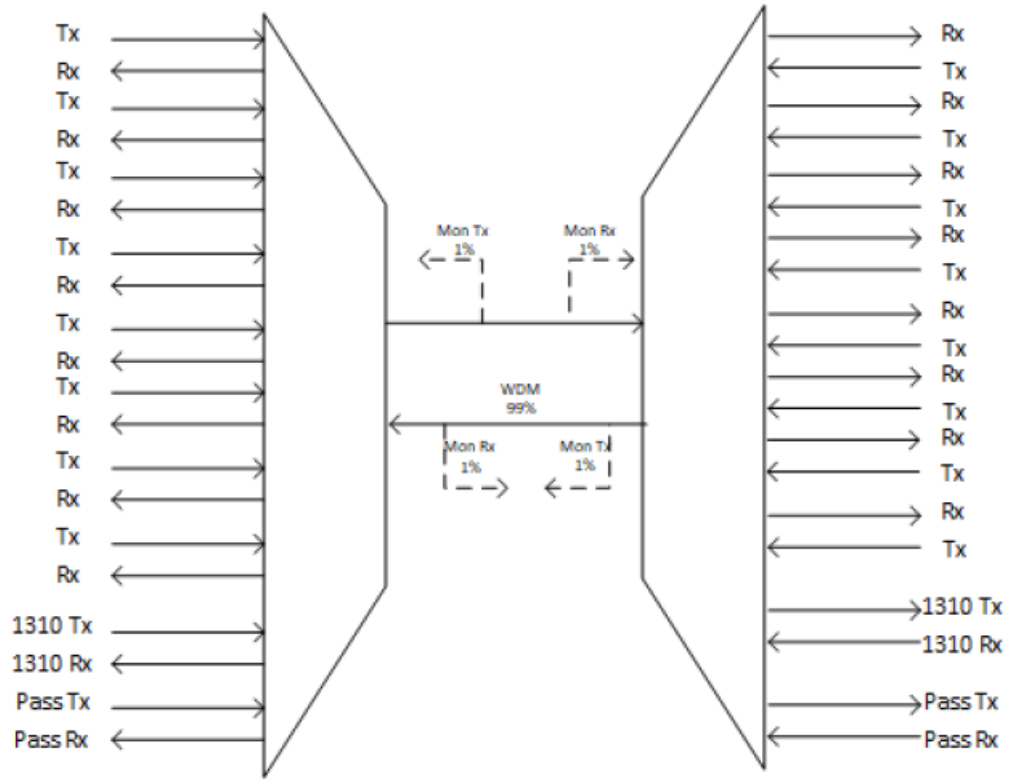
### Product Description

This is an 8 channel DWDM mux cartridge that operates over channels 21-28. It also has pass ports and duplex LC connectors. This unit can be used as either a multiplexer or de-multiplexer (mux/demux), and is a plug and play system. All of our mux/demux products are 100% compliant and provide a cost effective solution for your network upgrade needs. With our certification test program, we guarantee your product will work correctly the first time.

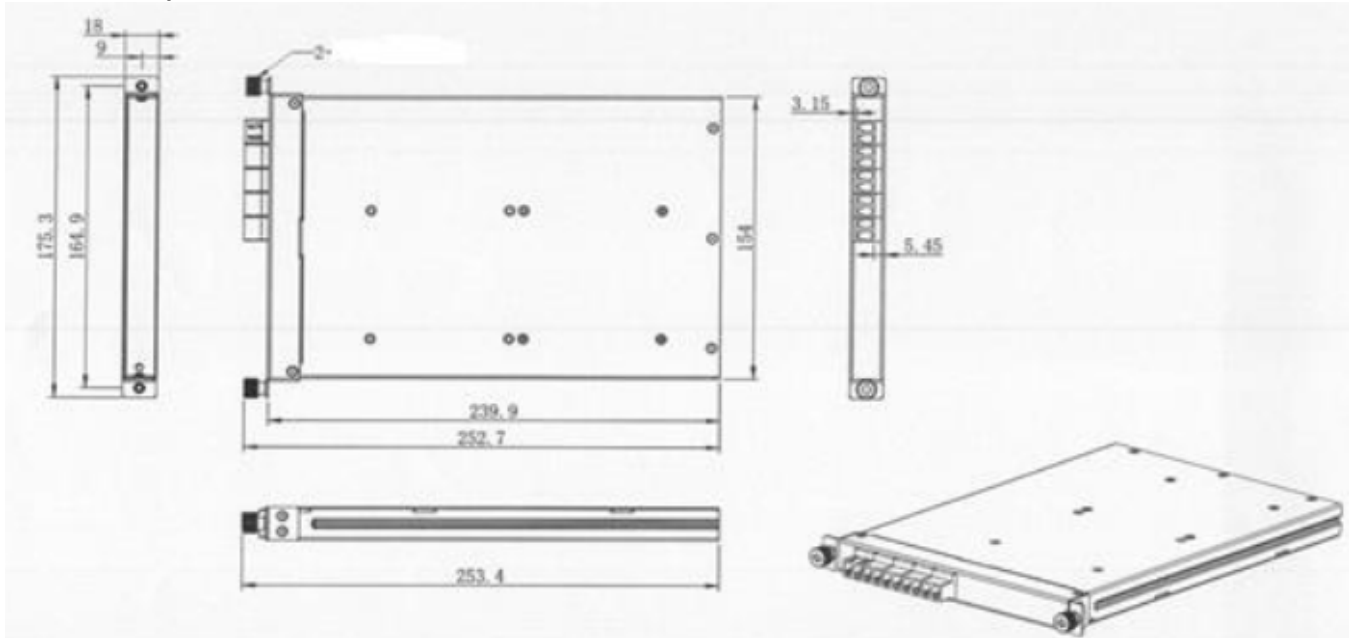
### Specifications

Parameter	Specification	Units
Maximum Insertion Loss	3.5	dB
Typical Insertion Loss	3.1	dB
Central Wavelength	ITU 100GHz C-Band, Channels 21-28	nm
Channel Spacing	0.8	nm
Channel Bandwidth	± 0.1	nm
Isolation – Adjacent Channel	≥ 30	dB
Isolation – Non-Adjacent Channel	≥ 40	dB
Return Loss	≥ 50	dB
Directivity	≥ 55	dB
Operating Temperature	0 to 70	°C
Storage Temperature	-40 to 85	°C

**Mux Type Application Diagram**  
*w/Pass, 1310, & Monitor Ports*



## Mechanical Specifications



<b>Dimensions (Box)</b>	175mm x 253mm x 0.7mm (6.9in x 9.9in x 0.37in)
<b>Adapter Type</b>	LC/UPC
<b>Max Adapters</b>	20 LC/UPC

## DWDM Wavelengths

### ITU 100GHz Channels

ITU Channel Number	Wavelength, nm	Frequency, THz	ITU Channel Number	Wavelength, nm	Frequency, THz
11	1568.11	191.1	37	1547.72	193.7
12	1567.95	191.2	38	1546.92	193.8
13	1567.13	191.3	39	1546.12	193.9
14	1566.31	191.4	40	1545.32	194.0
15	1565.50	191.5	41	1544.53	194.1
16	1564.68	191.6	42	1543.73	194.2
17	1563.86	191.7	43	1542.94	194.3
18	1563.05	191.8	44	1542.14	194.4
19	1562.23	191.9	45	1541.35	194.4
20	1561.42	192.0	46	1540.56	194.6
21	1560.61	192.1	47	1539.77	194.7
22	1559.79	192.2	48	1538.98	194.8
23	1558.98	192.3	49	1538.19	194.9
24	1558.17	192.4	50	1537.40	195.0
25	1557.36	192.5	51	1536.61	195.1
26	1556.55	192.6	52	1535.82	195.2
27	1555.75	192.7	53	1535.04	195.3
28	1554.94	192.8	54	1534.25	195.4
29	1554.13	192.9	55	1533.47	195.5
30	1553.33	193.0	56	1532.68	195.6
31	1552.52	193.1	57	1531.90	195.7
32	1551.72	193.2	58	1531.12	195.8
33	1550.92	193.3	59	1530.33	195.9
34	1550.12	193.4	60	1529.55	196.0
35	1549.32	193.5	61	1528.77	196.1
36	1548.51	193.6			

## About AddOn Networks

In 1999, AddOn Networks entered the market with a single product. Our founders fulfilled a severe shortage for compatible, cost-effective optical transceivers that compete at the same performance levels as leading OEM manufacturers. Adhering to the idea of redefining service and product quality not previously had in the fiber optic networking industry, AddOn invested resources in solution design, production, fulfillment, and global support.

Combining one of the most extensive and stringent testing processes in the industry, an exceptional free tech support center, and a consistent roll-out of innovative technologies, AddOn has continually set industry standards of quality and reliability throughout its history.

Reliability is the cornerstone of any optical fiber network and is engrained in AddOn's DNA. It has played a key role in nurturing the long-term relationships developed over the years with customers. AddOn remains committed to exceeding industry standards with certifications from ranging from NEBS Level 3 to ISO 9001:2005 with every new development while maintaining the signature reliability of its products.



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