

### **ADD-DWDM-MUXDC2EM-21-22**

2Ch Compact Mux (with Pigtails and Connectors) DWDM Mux and Demux (Duplex), ITU 100GHz Channel 21 ~ 22 w/Express & Monitor Ports, UPC/LC Connectors

#### **Features**

- DWDM
- Mux and Demux – Duplex COM Port
- Express and Monitor Ports
- ABS Box (Compact) Form Factor
- 2M 900micron Fiber Pigtails

#### **Product Description**

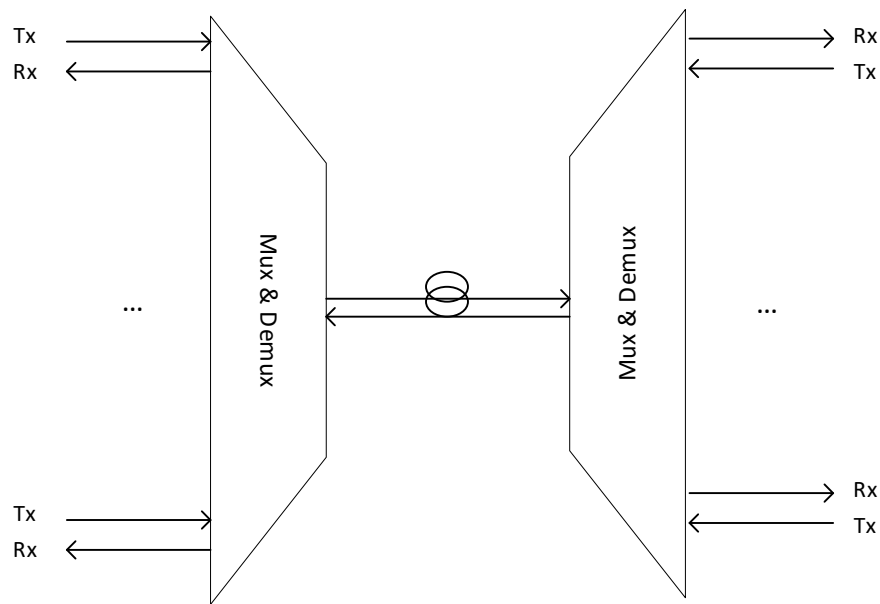
This is a compact 2-channel DWDM mux/demux with 2m pigtails that operates over 100GHz C-Band channels 21-22 with a monitor, and an express port. This unit can be used as either a multiplexer or de-multiplexer (mux/demux), and is a plug and play system. All of our mux/demux products are 100% compliant 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.

## DWDM Optical Specifications

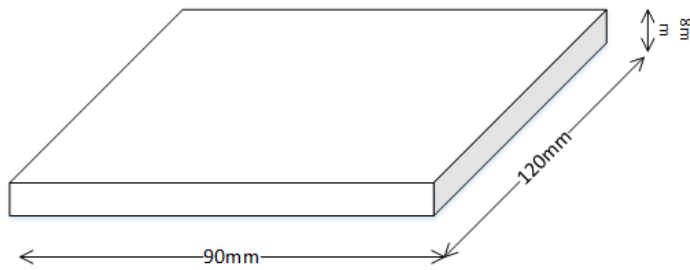
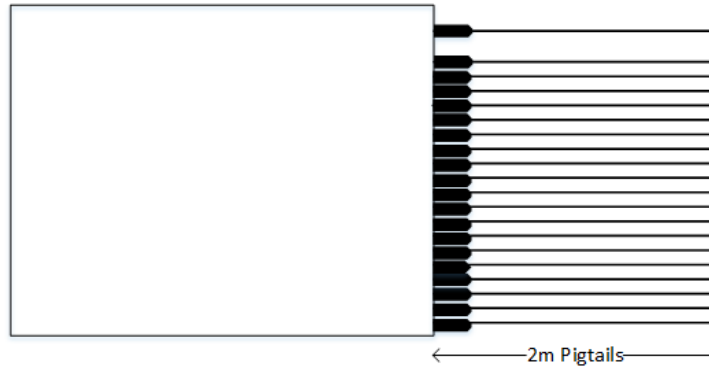
Parameter	Specification	Units
Central Wavelength	ITU 100GHz Spacing	nm
Channel Passband	$\pm 0.11$	nm
Insertion Loss	2ch $\leq 1.6$	dB
Isolation – Adjacent Channel	$\geq 28$	dB
Isolation – Non-Adjacent Channel	$\geq 40$	dB
Isolation – Express Channel	$\geq 12$	dB
Ripple in Passband	$\leq 0.5$	dB
Temperature Stability	$\leq 0.005$	dB/°C
PDL	$\leq 0.15$	dB
PMD	$\leq 0.1$	dB
Return Loss	$\geq 45$	dB
Directivity	$\geq 55$	dB
Maximum Power Handling	500	mW
Operating Temperature	0 ~ 70	°C
Storage Temperature	-40 ~ 85	°C

## Mux Type Application Diagram

*Mux and Demux Application Duplex*



## Mechanical Specifications



Parameter	Specification
Material	ABS (crylonitrile butadiene styrene)
Dimensions (Box)	2ch – 8Ch: 100(L) x 90(W) x 10(H) mm
Pigtail Length	2m
Pigtail Type – Color	900 micron - White
Connector Type	SC/APC, SC/UPC, LC/UPC, LC/APC, and Stub End
Fiber Type	Corning G657A1

## DWDM Wavelengths

### ITU 100GHz Channels

ITU Channel Number	Wavelength, nm	Frequency, THz	ITU Channel Number	Wavelength, nm	Frequency, THz
21	1560.61	192.1	41	1544.53	194.1
22	1559.79	192.2	42	1543.73	194.2
23	1558.98	192.3	43	1542.94	194.3
24	1558.17	192.4	44	1542.14	194.4
25	1557.36	192.5	45	1541.35	194.4
26	1556.55	192.6	46	1540.56	194.6
27	1555.75	192.7	47	1539.77	194.7
28	1554.94	192.8	48	1538.98	194.8
29	1554.13	192.9	49	1538.19	194.9
30	1553.33	193.0	50	1537.40	195.0
31	1552.52	193.1	51	1536.61	195.1
32	1551.72	193.2	52	1535.82	195.2
33	1550.92	193.3	53	1535.04	195.3
34	1550.12	193.4	54	1534.25	195.4
35	1549.32	193.5	55	1533.47	195.5
36	1548.51	193.6	56	1532.68	195.6
37	1547.72	193.7	57	1531.90	195.7
38	1546.92	193.8	58	1531.12	195.8
39	1546.12	193.9	59	1530.33	195.9
40	1545.32	194.0	60	1529.55	196.0

## **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.

## **U.S. Headquarters**

Email: [sales@addonnetworks.com](mailto:sales@addonnetworks.com)

Telephone: +1 877.292.1701

Fax: 949.266.9273

## **Europe Headquarters**

Email: [salesupportemea@addonnetworks.com](mailto:salesupportemea@addonnetworks.com)

Telephone: +44 1285 842070