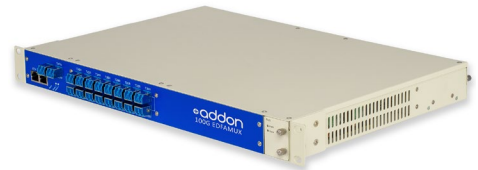


100G EDFAMUX

Active MUX with built-in EDFAs and Tunable Dispersion Compensator, C-Band 100Ghz, Dual AC 100/240V. Built-in LAN+WLAN to access internal webserver for monitoring and configuration, 1RU 19" casing

Features

- Supports 8x 100G communication lines from 5Km to 120Km and 16 x 100G communication lines from 5Km to 80Km
- 8 Channel and 16 Channel options
- Web and Console configuration
- Web, SNMP and Syslog Monitoring
- Monitor Port
- Auto Gain Control
- Default 2 x AC (100-240V), DC optional
- 19" 1U Rack Mount Form Factor
- Operating Temperature: -5 ~ 60°C
- UPC/LC Adapters with auto dust shutters



Product Description

This 100G EDFAMUX is a Passive Multiplexer with Active Components, which combines three devices into one rack unit. Typically, long distance projects require a 1RU standalone Passive MUX, a separate EDFA (amplifier), and a separate Dispersion Compensation unit. This EDFAMUX combines all of these features in a 1RU 19" casing, which requires less space and less patching. 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.

Order Information

Part Numbers	Descriptions
ADD-EDFAMUX-8X100G-20-80	8Ch Active MUX EDFAs and Tunable Dispersion Compensator, 8 x100G, 80km, Power Budget 18dB, Channels 20-27 C-Band 100Ghz
ADD-EDFAMUX-8X100G-28-80	8Ch Active MUX EDFAs and Tunable Dispersion Compensator, 8 x100G, 80km, Power Budget 18dB, Channels 28-35 C-Band 100Ghz
ADD-EDFAMUX-8X100G-36-80	8Ch Active MUX EDFAs and Tunable Dispersion Compensator, 8 x100G, 80km, Power Budget 18dB, Channels 36-43 C-Band 100Ghz

ADD-EDFAMUX-8X100G-44-80	8Ch Active MUX EDFAs and Tunable Dispersion Compensator, 8 x100G, 80km, Power Budget 18dB, Channels 44-51 C-Band 100Ghz
ADD-EDFAMUX-8X100G-20-120	8Ch Active MUX EDFAs and Tunable Dispersion Compensator, 8 x100G, 120km, Power Budget 35.5dB Channels 20-27 C-Band 100Ghz
ADD-EDFAMUX-8X100G-28-120	8Ch Active MUX EDFAs and Tunable Dispersion Compensator, 8 x100G, 120km, Power Budget 35.5dB Channels 28-35 C-Band 100Ghz
ADD-EDFAMUX-8X100G-36-120	8Ch Active MUX EDFAs and Tunable Dispersion Compensator, 8 x100G, 120km, Power Budget 35.5dB Channels 36-43 C-Band 100Ghz
ADD-EDFAMUX-8X100G-44-120	8Ch Active MUX EDFAs and Tunable Dispersion Compensator, 8 x100G, 120km, Power Budget 35.5dB Channels 44-51 C-Band 100Ghz
ADD-EDFAMUX-16X100G-20-40	16Ch Active MUX EDFAs and Tunable Dispersion Compensator, 16 x100G, 40km, Power Budget 18dB. Channels 20-35 C-Band 100Ghz
ADD-EDFAMUX-16X100G-43-40	16Ch Active MUX EDFAs and Tunable Dispersion Compensator, 16 x100G, 40km, Power Budget 18dB. Channels 43-58 C-Band 100Ghz
ADD-EDFAMUX-16X100G-20-80	16Ch Active MUX EDFAs and Tunable Dispersion Compensator, 16 x100G, 80km, Power Budget 18dB. Channels 20-35 C-Band 100Ghz
ADD-EDFAMUX-16X100G-43-80	16Ch Active MUX EDFAs and Tunable Dispersion Compensator, 16 x100G, 80km, Power Budget 18dB. Channels 43-58 C-Band 100Ghz
ADD-EDFAMUX-8X100G-28-120-DC	8Ch Active MUX EDFAs and Tunable Dispersion Compensator, 8 x100G, 120km, Power Budget 35.5dB Channels 28-35 C-Band 100Ghz
ADD-EDFAMUX-8X100G-28-80-DC	8Ch Active MUX EDFAs and Tunable Dispersion Compensator, 8 x100G, 80km, Power Budget 18dB, Channels 28-35 C-Band 100Ghz

Mux Specifications

Parameter	100G - 80km	100G - 120km	Units
Channel Spacing	0.8	0.8	nm
Operation Wavelength Range	Default Ch 28-35	Default Ch 28-35	ITU 100 GHz
Channel Center Wavelength (CWL)	ITU ± 0.11	ITU ± 0.11	nm
Max Channel Insertion Loss	2.5	2.5	dB
Isolation – Adjacent Channel	30	30	dB
Isolation – Non-Adjacent Channel	45	45	dB
Return Loss @ CWL	45	45	dB
Monitor Port	1%	1%	%

EDFA Booster Specifications

Parameter	100G - 80km	100G - 120km	Units
EDFA Operating Mode	AGC	AGC	
Input Power Range	-15 - +8	-15 - +8	dBm
Typical Noise Figure	<4.5	<4.5	dB
Typical Pump Power	Adjustable 14-20	Adjustable 14-20	dB
Saturation	20	20	dBm

EDFA Post-Amp. Specifications

Parameter	100G - 80km	100G - 120km	Units
EDFA Operating Mode	AGC	AGC	
Input Power Range	-15 to +8	-33 to -10	dBm
Typical Noise Figure	4.5	4.5	dB
Typical Pump Power	Adjustable 14-20	33	dB
Saturation	20	20	dBm

Dispersion Compensator Specifications

Parameter	100G - 80km	100G - 120km	Units
DCM Type	Fiber Bragg Grating	Fiber Bragg Grating	
Dispersion Compensating	0 to -1300	-1000 to -2300	ps/nm
Insertion Loss	<4	<6.5	dB

Casing Specifications

Parameter	100G - 80km	100G - 120km	Units
Input Power	100-240	100-240	AC/V
	36-72	36-72	DC/V
Dimensions	482.6*300*44mm	482.6*300*44mm	mm
Operating Temperature	-5 ~ 60	-5 ~ 60	°C
Power Consumption	<8	<12	W
Airflow	Side-to-Side	Side-to-Side	

DWDM Wavelengths

ITU 100GHz Channels

ITU Channel Number	Wavelength, nm	Frequency, THz	ITU Channel Number	Wavelength, nm	Frequency, THz
20	1561.42	192.0	40	1545.32	194.0
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

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

Telephone: +1 877.292.1701

Fax: 949.266.9273

Europe Headquarters

Email: salesupportemea@addonnetworks.com

Telephone: +44 1285 842070