

10G EDFAMUX

Active MUX with built-in EDFAs and Fixed Dispersion Compensator, Up to 140km and 200km Reach, C-Band 100Ghz and 1% Monitor port, 1RU 19" casing

Features

- Supports 8, 10 or 16 communication lines of 10G from 140km up to 200km
- 8 Channel, 10 Channel and 16 Channel options
- Mix of 1/10G optics and/or Fiber Channel possible
- 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 10G 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-10X10G-28-200	10Ch Active MUX with built-in EDFAs and 120km fixed Dispersion Compensator, 10x10G to reach max of 200km, Channels 28-37 C-Band 100Ghz and 1% Monitor port, 1RU 19" casing
ADD-EDFAMUX-10X10G-28-140	10Ch Active MUX with built-in EDFAs and 60km fixed Dispersion Compensator, 10x10G to reach max of 140km, Channels 28-37 C-Band 100Ghz and 1% Monitor port, 1RU 19" casing
ADD-EDFAMUX-16X10G-20-140	16Ch Active MUX with built-in EDFAs and 60km fixed Dispersion Compensator, 16x10G to reach max of 140km, Channels 20-35 C-Band 100Ghz and 1% Monitor port, 1RU 19" casing
ADD-EDFAMUX8X10G-20-27/43-50-S	8Ch 8x10G 120KM EDFAMUX, EDFA, Red/Blue Filter, Simplex, Mux Channels 20-27, Demux 43-50
ADD-EDFAMUX8X10G-50-43/27-20-S	8Ch 8x10G 120KM EDFAMUX, EDFA, Red/Blue Filter, Simplex, Mux Channels 43-50, Demux 20-27

Mux Specifications

Parameter	10G - 140km	10G - 200km	Units
Channel Spacing	0.8	0.8	nm
Operation Wavelength Range	10CH: Default Ch 28-37 16CH: Default Ch 20-35	Default Ch 28-37	ITU 100 GHz
Channel Center Wavelength (CWL)	ITU $\pm$ 0.11	ITU $\pm$ 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	10G - 140km	10G - 200km	Units
EDFA Operating Mode	N/A	AGC	
Input Power Range	N/A	-15 - +8	dBm
Typical Noise Figure	N/A	4.5	dB
Typical Pump Power	N/A	Adjustable 14-20	dB
Saturation	N/A	20	dBm

EDFA Post-Amp. Specifications

Parameter	10G - 140km	10G - 200km	Units
EDFA Operating Mode	AGC	AGC	
Input Power Range	-30 to -5	-30 to -5	dBm
Typical Noise Figure	<4.5	<4.5	dB
Typical Pump Power	21	21	dB
Saturation	20	20	dBm

Dispersion Compensator Specifications

Parameter	10G - 140km	10G - 200km	Units
DCM Type	Fiber Bragg Grating	Fiber Bragg Grating	
Dispersion Compensating	-1000	-2000	Ps/nm
Insertion Loss	<3	<3	dB

Casing Specifications

Parameter	10G - 140km	10G - 200km	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	

10G EDFAMUX

Part Numbers	10G DWDM	MON	EXT
ADD-EDFAMUX-10X10G-28-200	CH 28-37	1%	n/a
ADD-EDFAMUX-10X10G-28-140	CH 28-37	1%	n/a
ADD-EDFAMUX-16X10G-20-140	CH 20-35	1%	n/a
ADD-EDFAMUX8X10G-20-27/43-50-S	Mux CH 20-27, Demux CH 43-50	1%	n/a
ADD-EDFAMUX8X10G-50-43/27-20-S	Mux CH 43-50, Demux CH 20-27	1%	n/a

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 ingrained 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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