



SKY-DWDM8X400G-EDFAMUX-120-UPG

8Ch Active MUX with built-in EDFA amplifiers, up to 8 x 400G to reach a max of 120km

Product Description

8Ch Active MUX with built-in EDFA amplifiers, up to 8 x 400G to reach max of 120km, Net Power Budget 30dB (calculation based on 100% population of ports), Channels 20-27 C-Band 100GHz, Extension port (CH17-19 & 28-60), 1625nm Port for external OTDR and 1% Monitor port, Dual AC 100/240V, ethernet and console management ports, 1RU 19" enclosure.

Features

- Combines a 1RU 19" standalone passive MUX and EDFAs into one active rack unit device
- Up to 8 lines of 400Gbps from 60km up to 120km
- Net power budget of up to 30dB loss in the fiber link with 100% port population
- Channels 20-27 C-band 100GHz (extension port available at channels 17 to 19 and 28 to 60)
- Additional channels are available upon request
- Web, SNMP, SYSLOG, and HTTP API monitoring
- 1% monitor port
- 1625nm port for external OTDR (inline)
- Adjustable auto-gain control mode (adding some dB when extra channels are plugged in)
- Default LC/UPC with auto-dust shutters



For your product safety, please read the following information carefully before any manipulation of the transceiver:



ESD

This transceiver is specified as ESD threshold 1kV for SFI pins and 2kV for all others electrical input pins, tested per MIL-STD-883G, Method 3015.4 /JESD22-A114-A (HBM). However, normal ESD precautions are still required during the handling of this module.



LASER SAFETY

This is a Class1 Laser Product according to IEC 60825-1:2007. This product complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated (June 24, 2007).

The optical ports of the module need to be terminated with an optical connector or with a dust plug in order to avoid contamination.

Mux Specifications

Parameter	Specification	Symbol
Channel Spacing	0.8	nm
Operation Wavelength Range	Default Ch 20-27	ITU 100GHz
Channel Center Wavelength (CWL)	ITU $\pm$ 0.11	nm
Maximum Channel Insertion Loss	2.5	dB
Adjacent Channel Isolation	30	dB
Non-Adjacent Channel Isolation	45	dB
Return Loss @ CWL	45	dB
Monitor Port	1	%

EDFA Booster Specifications

Parameter	Specification	Symbol
EDFA Operating Mode	AGC	
Input Power Range	-15 to +8	dBm
Typical Noise Figure	<4.5	dB
Typical Pump Power	Tunable 10-16	dB
Saturation	20	dBm

EDFA Pre-Amp Specifications

Parameter	Specification	Symbol
EDFA Operating Mode	AGC	
Input Power Range	-30 to -5	dBm
Typical Noise Figure	<4.5	dB
Typical Pump Power	Tunable 12 to 18	dB
Saturation	20	dBm

Management Module

1. The EDFAMUX comes standard with an integrated management module with LAN and console connectivity. By using LAN, you can configure and monitor the system over GUI, SNMP, SYSLOG, or HTTP API.
2. The operating settings are stored in the device itself. Rebooting the management module or upgrading its firmware won't interrupt communication.
3. For information about how to configure the EDFAMUX, please refer to the EDFAMUX manual provided with the unit or download it from our website.

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 Skylane Optics

Skylane is a leading provider of transceivers for optical communication.

We offer an extensive portfolio for the enterprise, access, datacenter and metropolitan fiber optical market as well as for smart home applications and home networks.

We cover the European, South American and North American market with a strong partner network and have offices in Belgium, Brazil, Sweden and USA.

Our offerings are characterized by high quality and performance. In combination with our strong technical support, we enable our customers to build cost optimized network solutions.

We offer an extensive range of high-quality products including transceivers (Optical and copper), Active Optical Cable (AOC), Direct Attach Cable (DAC), Mux/Demux, Coding Box.

