

Seamless Connectivity, Infinite Possibilities

AERECH
AERECH NETWORKS

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**Global Leading Supplier for Optical Transceivers,
DAC/AOC Cables, WDM/OTN System Products,
Media Converters, Optic Patch Cord, Network
Patch Cable and Fiber Accessories**

Our Main Market



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About us

Founded in 2015 and headquartered in Shenzhen, China, Aerech is a leading developer and manufacturer of a full range of optical transceivers and high-speed connectivity solutions.

We specialize in providing reliable, cost-effective products for data centers, AI computing, telecom operators, and enterprise networks worldwide.

Our portfolio includes SFP/SFP+, QSFP/QSFP-DD transceivers, DAC/AOC cables, media converters, MUX/DEMUX, EDFA, and fiber optic accessories.

With strong R&D capabilities and a commitment to quality, Aerech delivers customized optical solutions to meet diverse network demands across global markets.

Production Line



Certificate



Exhibition & Customer Visit



800G OSFP/QSFP-DD Series

- Feature
 - Up to 106.25Gbps data rate per channel by PAM4 modulation
 - Hot-Pluggable
 - Single +3.3V power supply
 - Compliant with IEEE P802.3ck, IEEE 802.3cu
 - OSFP 2xSR4/DR8/, QSFP-DD SR8/DR8/2xFR4

- Application
 - Data centers and Cloud Networks
 - Enterprise Networking
 - 800G Ethernet



>> Parameter

Part number	Data rate	Wavelength	TX Power	RX Power	Reach	Connector
AE-OSFP800-2SR4	800G	850nm	-4.6~4dB	-6.4dBm	50M	Dual MPO-12
AE-OSFP800-2DR4	800G	1310nm	-2.9~4.0dBm	-5.9dBm	500M	Dual MPO-12
AE-OSFP800-2FR4	800G	CWDM 1310nm	-3.2~4.4dBm	-7.2dBm	2KM	Duplex LC
AE-OSFP800-2LR4	800G	CWDM 1310nm	-2.7~5.1dBm	-9dBm	10KM	Duplex LC
AE-QDD800-2SR4	800G	850nm	-4.6~4dB	-6.3dBm	50M	Dual MPO-12
AE-QDD800-SR8	800G	850nm	-4.6~4dB	-6.4dBm	50M	MPO-16
AE-QDD800-2DR4	800G	1310nm	-3.1~4.0dBm	-7.1dBm	500M	Dual MPO-12
AE-QDD800-DR8	800G	1310nm	-2.9~4.0dBm	-5.9dBm	500M	MPO-16
AE-QDD800-2FR4	800G	CWDM 1310nm	-3.2~4.4dBm	-7.2dBm	2KM	Duplex LC
AE-QDD800-2LR4	800G	CWDM 1310nm	-2.7~5.1dBm	-9dBm	10KM	Duplex LC

400G QSFP-DD Series

- Feature
 - Hot-Pluggable QSFP-DD MSA form package
 - RoHs compliance
 - Single +3.3V power supply
 - Compliant with IEEE 802.3cm, IEEE Std 802.3bs
 - QSFP-DD SR4/SR8/DR4/FR4/LR4/LR8/ER4/ER8

- Application
 - Data centers and Cloud Networks
 - Enterprise Networking
 - 400G interconnect Requirements



>> Parameter

Part number	Data rate	Wavelength	TX Power	RX Power	Reach	Connector
AE-QSFPDD-SR4	400G	850nm	-4.6~4dBm	-6.4dBm	100M	MPO-12
AE-QSFPDD-SR8	400G	850nm	-6.5~4dBm	-8.4dBm	100M	MPO-16
AE-QSFPDD-DR4	400G	1310nm	-2.9~4dBm	-5.9dBm	500M	MPO-12
AE-QSFPDD-FR4	400G	CWDM 1310nm	-3.2~4.4dBm	-7.3dBm	2KM	Duplex LC
AE-QSFPDD-LR4	400G	CWDM 1310nm	-2.7~5.1dBm	-9dBm	10KM	Duplex LC
AE-QSFPDD-ER4L	400G	LWDM 1310nm	0~5.6dBm	-14.7dBm	30KM	Duplex LC
AE-QSFPDD-ER8	400G	LWDM 1310nm	-0.6~5.6dBm	-18.6dBm	40KM	Duplex LC
AE-OSFP-SR8	400G	850nm	-6.5~4dBm	-8.4dBm	100M	MPO-16
AE-OSFP-SR4	400G	850nm	-4.6~4dBm	-6.3dBm	50M	MPO-12
AE-OSFP-DR4	400G	1310nm	-2.9~4dBm	-5.9dBm	500M	MPO-12

100G QSFP28 Series

- Feature
 - Support line rates from 103.125Gbps to 112Gbps OTU4
 - Hot pluggable QSFP28 MSA compliant
 - RoHS-10 compliant and lead-free
 - Single +3.3V power supply
 - Maximum power consumption 5.5W
 - QSFP28 SR4/FR4/LR4/ER4/ZR4, BIDI QSFP28 LR/ER/ZR

- Application
 - Data centers and Cloud Networks
 - 100GBASE Ethernet
 - Transmission Network

>> Parameter



100G BIDI QSFP28 Series

>> Parameter

Part number	Data rate	Wavelength	TX Power	RX Power	Reach	Connector
AE-Q28-BX10-U	100G	1270nm/1330nm	-1.4~4.5dBm	-6.1dBm	10KM	Simplex LC
AE-Q28-BX10-D	100G	1330nm/1270nm	-1.4~4.5dBm	-6.1dBm	10KM	Simplex LC
AE-Q28-BX20-U	100G	1290nm/1310nm	-0.2~6.6dBm	-7.6dBm	20KM	Simplex LC
AE-Q28-BX20-D	100G	1310nm/1290nm	-0.2~6.6dBm	-7.6dBm	20KM	Simplex LC
AE-Q28-BX40-U	100G	1304nm/1309nm	1.7~7.1dBm	-16dBm	40KM	Simplex LC
AE-Q28-BX40-D	100G	1309nm/1304nm	1.7~7.1dBm	-16dBm	40KM	Simplex LC
AE-Q28-BX80-U	100G	1280nm/1310nm	1~7dBm	-26dBm	80KM	Simplex LC
AE-Q28-BX80-D	100G	1310nm/1280nm	1~7dBm	-26dBm	80KM	Simplex LC

40G QSFP Series

- Feature
 - Support line rates 40Gbps
 - Hot pluggable QSFP+ form factor
 - Compliant with QSFP+ SFF-8436 MSA
 - Single +3.3V power supply
 - QSFP SR4/IR4/LR4/ER4/ZR4

- Application
 - Data centers and Cloud Networks
 - 40GBASE Ethernet



>> Parameter

Part number	Data rate	Wavelength	TX Power	RX Power	Reach	Connector
AE-QSFP-SFP10G	40G	N/A	N/A	N/A	N/A	N/A
AE-QSFP-SR4	40G	850nm	-7.6~1dBm	-11.1dBm	100M	MTP/MPO
AE-QSFP-SRBD	40G	832nm/918nm	-4~5dBm	-6dBm	100M	Duplex LC
AE-QSFP-SWDM4	40G	850nm~940nm	-7.5~3dBm	-9.1dbm	100M	Duplex LC
AE-QSFP-IR4	40G	CWDM 1310nm	-7~2.3dBm	-11.5dBm	2KM	Duplex LC
AE-QSFP-LR4	40G	CWDM 1310nm	-7~2.3dBm	-11.5dBm	10KM	Duplex LC
AE-QSFP-LH4	40G	CWDM 1310nm	-3.5~2.3dBm	-12.5dBm	20KM	Duplex LC
AE-QSFP-PSM4	40G	PSM 1310nm	-7~2.3dBm	-11.5dBm	10KM	MTP/MPO
AE-QSFP-ER4	40G	CWDM 1310nm	-2.7~4.5dBm	-19dBm	40KM	Duplex LC
AE-QSFP-ZR4	40G	LWDM 1310nm	0~4.5dBm	-25dBm	80KM	Duplex LC

25G/16G/32G SFP28 Series

- Feature
- Hot Pluggable SFP28 MSA form factor
- +3.3V power supply
- Supports 25.78Gb/s data rate
- 16G/32G SFP+ for FC rate 4.25/8.5/14.025/29.05Gb/s
- Operating temperature: 0~70°C/-40~85°C(I-Temp)

- Application
- Data centers and Cloud Networks
- 25GBASE Ethernet/Telecom
- 16G/32G for Fibre Channel/Storage network



>> Parameter

Part number	Data rate	Wavelength	TX Power	RX Power	Reach	Connector
AE-SFP28-SR	25G	850nm	-8.4~2.4dBm	-10.3dBm	100M	Duplex LC
AE-SFP28-LR	25G	1310nm	-7~2dBm	-12dBm	10KM	Duplex LC
AE-SFP28-ER	25G	1310nm	-3~6dBm	-19dBm	40KM	Duplex LC
AE-SFP28-BX10-U	25G	1270nm/1330nm	-2~4dBm	-13dBm	10KM	Simplex LC
AE-SFP28-BX10-D	25G	1330nm/1270nm	-2~4dBm	-13dBm	10KM	Simplex LC
AE-SFP28-BX20-U	25G	1270nm/1330nm	0~6dBm	-13dBm	20KM	Simplex LC
AE-SFP28-BX20-D	25G	1330nm/1270nm	0~6dBm	-13dBm	20KM	Simplex LC
AE-SFP28-BX40-U	25G	1270nm/1310nm	1~6dBm	-19dBm	40KM	Simplex LC
AE-SFP28-BX40-D	25G	1310nm/1270nm	1~6dBm	-19dBm	40KM	Simplex LC
AE-SFP28-C10-XX	25G	CWDM	-4~4dBm	-13.3dBm	10KM	Duplex LC
AE-SFP28-D10-XX	25G	DWDM	-2~7dBm	-14dBm	10KM	Duplex LC
AE-16G-SR	16G	850nm	-8~+2dBm	-10.5dBm	100M	Duplex LC
AE-16G-LR	16G	1310nm	-4~+2dBm	-10.5dBm	10KM	Duplex LC
AE-16G-ER	16G	1550nm	-1~3dBm	-14dBm	40KM	Duplex LC
AE-32G-SR	32G	850nm	-6.7~+2dBm	-10.5dBm	100M	Duplex LC
AE-32G-LR	32G	1310nm	-7~+2dBm	-11.6dBm	10KM	Duplex LC
AE-16G-D10-XX	16G	DWDM	-2~4dBm	-13dBm	10KM	Duplex LC
AE-16G-D40-XX	16G	DWDM	-1~3dBm	-14dBm	40KM	Duplex LC
AE-32G-D10-XX	32G	DWDM	-5~2dBm	-11.4dBm	10KM	Duplex LC

10G SFP+ Series

- Feature
- Hot pluggable SFP+ MSA form package
- Low power consumption
- Supports up to 11.3Gb/s data rate
- Transmission distances from 220m to 100km
- Operating temperature: 0~70°C/-40~85°C(I-Temp)

- Application
- Data center
- Enterprise and Ethernet
- Radio & Baseband Unit



>> Parameter

Part number	Data rate	Wavelength	TX Power	RX Power	Reach	Connector
AE-SFP-10G-T	10G	N/A	N/A	N/A	30M	RJ45
AE-SFP+-SR	10G	850nm	-6.5~-1dBm	-11.1dBm	300M	Duplex LC
AE-SFP+-LRM	10G	1310nm	-7.3~-1dBm	-9dBm	220M	Duplex LC
AE-SFP+-IR	10G	1310nm	-6~-1dBm	-12dBm	2KM	Duplex LC
AE-SFP+-LR	10G	1310nm	-6.5~-0.5dBm	-14.4dBm	10KM	Duplex LC
AE-SFP+-LH	10G	1310nm	-6.5~-0.5dBm	-14.4dBm	20KM	Duplex LC
AE-SFP+-ER	10G	1550nm	-2~4dBm	-16dBm	40KM	Duplex LC
AE-SFP+-ZR	10G	1550nm	0~5dBm	-24dBm	80KM	Duplex LC
AE-SFP+-ZR100	10G	1550nm	0~5dBm	-25dBm	100KM	Duplex LC
AE-SFP+-BX10-U	10G	1270nm/1330nm	-5~0dBm	-14dBm	10KM	Simplex LC
AE-SFP+-BX10-D	10G	1330nm/1270nm	-5~0dBm	-14dBm	10KM	Simplex LC
AE-SFP+-BX20-U	10G	1270nm/1330nm	-5~0dBm	-14dBm	20KM	Simplex LC
AE-SFP+-BX20-D	10G	1330nm/1270nm	-5~0dBm	-14dBm	20KM	Simplex LC
AE-SFP+-BX40-U	10G	1270nm/1330nm	1~5dBm	-15dBm	40KM	Simplex LC
AE-SFP+-BX40-D	10G	1330nm/1270nm	1~5dBm	-15dBm	40KM	Simplex LC
AE-SFP+-BX60-U	10G	1270nm/1330nm	1~6dBm	-21dBm	60KM	Simplex LC
AE-SFP+-BX60-D	10G	1330nm/1270nm	1~6dBm	-21dBm	60KM	Simplex LC
AE-SFP+-BX80-U	10G	1490nm/1550nm	0~5dBm	-24dBm	80KM	Simplex LC
AE-SFP+-BX80-D	10G	1550nm/1490nm	0~5dBm	-24dBm	80KM	Simplex LC
AE-SFP+-C40-XX	10G	1470-1610nm	-2~4dBm	-15.8dBm	40KM	Duplex LC
AE-SFP+-C80-XX	10G	1470-1610nm	0~5dBm	-23dBm	80KM	Duplex LC
AE-SFP+-D40-XX	10G	ITU 17-61	-1~4dBm	-16dBm	40KM	Duplex LC
AE-SFP+-D80-XX	10G	ITU 17-61	1~5dBm	-23dBm	80KM	Duplex LC

1G SFP Series

- Feature
- Compliant to IEEE 802.3z, IEEE 802.3ah-2004, IEEE 802.3z, SFF-8472
- Hot Pluggable SFP MSA Compliant
- +3.3V power supply
- Transmission distance from 550m to 160km

- Application
- Gigabit Ethernet
- Enterprise LAN & SAN Networks
- Data Center LAN & SAN Networks



>> Parameter

Part number	Data rate	Wavelength	TX Power	RX Power	Reach	Connector
AE-SFP-SX	1.25G	850nm	-9.5~-3dBm	-17dBm	550M	Duplex LC
AE-SFP-LX	1.25G	1310nm	-9.5~-3dBm	-22dBm	10KM	Duplex LC
AE-SFP-LH	1.25G	1310nm	-9.5~-3dBm	-23dBm	20KM	Duplex LC
AE-SFP-EX	1.25G	1310nm	-5~0dBm	-24dBm	40KM	Duplex LC
AE-SFP-ZX	1.25G	1550nm	0~5dBm	-24dBm	80KM	Duplex LC
AE-SFP-ZX120	1.25G	1550nm	0~5dBm	-32dBm	120KM	Duplex LC
AE-SFP-ZX160	1.25G	1550nm	1~6dBm	-35dBm	160KM	Duplex LC
AE-SFP-C80-XX	1.25G	CWDM	0~5dBm	-24dBm	80KM	Duplex LC
AE-SFP-C120-XX	1.25G	CWDM	0~5dBm	-30dBm	120KM	Duplex LC
AE-SFP-D80-XX	1.25G	DWDM	0~5dBm	-24dBm	80KM	Duplex LC
AE-SFP-D120-XX	1.25G	DWDM	0~5dBm	-32dBm	120KM	Duplex LC

1G BIDI SFP Series

- Feature
- Compliant to IEEE 802.3z Gigabit Ethernet
- Hot Pluggable SFP MSA Compliant
- +3.3V power supply
- Transmission distance from 3km to 120km

- Application
- Gigabit Ethernet
- Data Centers



>> Parameter

Part number	Data rate	Wavelength	TX Power	RX Power	Reach	Connector
AE-SFP-BX03-U	1.25G	1310nm/1550nm	-9~-3dBm	-21dBm	3KM	Simplex LC
AE-SFP-BX03-D	1.25G	1550nm/1310nm	-9~-3dBm	-21dBm	3KM	Simplex LC
AE-SFP-BX03S-U	1.25G	1310nm/1550nm	-9~-3dBm	-21dBm	3KM	Simplex SC
AE-SFP-BX03S-D	1.25G	1550nm/1310nm	-9~-3dBm	-21dBm	3KM	Simplex SC
AE-SFP-BX10-U	1.25G	1310nm/1550nm	-9~-3dBm	-22dBm	10KM	Simplex LC
AE-SFP-BX10-D	1.25G	1550nm/1310nm	-9~-3dBm	-22dBm	10KM	Simplex LC
AE-SFP-BX10-U-31	1.25G	1310nm/1490nm	-9~-3dBm	-23dBm	10KM	Simplex LC
AE-SFP-BX10-D-49	1.25G	1490nm/1310nm	-9~-3dBm	-23dBm	10KM	Simplex LC
AE-SFP-BX10S-U	1.25G	1310nm/1550nm	-9~-3dBm	-22dBm	10KM	Simplex SC
AE-SFP-BX10S-D	1.25G	1550nm/1310nm	-9~-3dBm	-22dBm	10KM	Simplex SC
AE-SFP-BX20-U	1.25G	1310nm/1550nm	-9~-3dBm	-22dBm	20KM	Simplex LC
AE-SFP-BX20-D	1.25G	1550nm/1310nm	-9~-3dBm	-22dBm	20KM	Simplex LC
AE-SFP-BX20-U-31	1.25G	1310nm/1490nm	-9~-3dBm	-23dBm	20KM	Simplex LC
AE-SFP-BX20-D-49	1.25G	1490nm/1310nm	-9~-3dBm	-23dBm	20KM	Simplex LC
AE-SFP-BX20S-U	1.25G	1310nm/1550nm	-9~-3dBm	-22dBm	20KM	Simplex SC
AE-SFP-BX20S-D	1.25G	1550nm/1310nm	-9~-3dBm	-22dBm	20KM	Simplex SC
AE-SFP-BX40-U	1.25G	1310nm/1550nm	-5~0dBm	-23dBm	40KM	Simplex LC
AE-SFP-BX40-D	1.25G	1550nm/1310nm	-5~0dBm	-23dBm	40KM	Simplex LC
AE-SFP-BX40-U-31	1.25G	1310nm/1490nm	-5~0dBm	-23dBm	40KM	Simplex LC
AE-SFP-BX40-D-49	1.25G	1490nm/1310nm	-5~0dBm	-23dBm	40KM	Simplex LC
AE-SFP-BX80-U	1.25G	1490nm/1550nm	-2~3dBm	-24dBm	80KM	Simplex LC
AE-SFP-BX80-D	1.25G	1550nm/1490nm	-2~3dBm	-24dBm	80KM	Simplex LC
AE-SFP-BX120-U	1.25G	1490nm/1550nm	-1~4dBm	-31dBm	120KM	Simplex LC
AE-SFP-BX120-D	1.25G	1550nm/1490nm	-1~4dBm	-31dBm	120KM	Simplex LC

Copper SFP Series

- Feature
 - Supports Links up to 30m
 - SFF-8431 and SFF-8432 MSA Compliant
 - Low Power Consumption
 - Compact RJ45 Connector Assembly
 - 10/100/1000M, 2.5G/10G data rate supported
- Application
 - 1G/10GBASE Ethernet



>> Parameter

Part number	Data rate	Wavelength	TX Power	RX Power	Reach	Connector
AE-SFP-10G-T	10G	N/A	N/A	N/A	30M	RJ45
AE-SFP-10G-T80	10G	N/A	N/A	N/A	80M	RJ45
AE-SFP-10G-T100	10G	N/A	N/A	N/A	100M	RJ45
AE-SFP-TA	10/100/1000M	N/A	N/A	N/A	100M	RJ45
AE-SFP-T	1000M	N/A	N/A	N/A	100M	RJ45

PON SFP Series

- Feature
 - Single fiber Bi-Di data link
 - MSA Compliant
 - +3.3V power supply
 - SC receptable or pigtail optional
- Application
 - PON System/10G PON System
 - FTTH/FTTB/FTTX
 - Passive Optical Access Network



>> Parameter

Part number	Form Factor	Data rate	TX/RX λ(nm)	Class	Temp	Connctor
AE-EOL-PX20	SFP	T1.25G/R1.25G	T1490/R1310	PX20	C,I	SC/PC
AE-EOL-PX20+	SFP	T1.25G/R1.25G	T1490/R1310	PX20+	C,I	SC/PC
AE-EOL-PX20++++	SFP	T1.25G/R1.25G	T1490/R1310	PX20++++	C,I	SC/PC
AE-GOL-B+	SFP	T2.5G/R1.25G	T1490/R1310	Class B+	C,I	SC/PC
AE-GOL-C+	SFP	T2.5G/R1.25G	T1490/R1310	Class C+	C,I	SC/PC
AE-GOL-C++	SFP	T2.5G/R1.25G	T1490/R1310	Class C++	C,I	SC/PC
AE-GOL-C+++	SFP	T2.5G/R1.25G	T1490/R1310	Class C+++	C,I	SC/PC
AE-EON-PX20+	SFP	T1.25G/R1.25G	T1310/R1490	PX20+	C,I	SC/APC
AE-GON-B+	SFP	T1.25G/R2.5G	T1310/R1490	Class B+	C,I	SC/APC
AE-GON-Stick	SFP	T1.25G/R2.5G	T1310/R1490	Class B+	C,I	SC/APC
AE-XG-ON-Nx	SFP+	T2.5G/R10G	T1270/R1577	N1/N2a	C,I	SC/PC
AE-XGS-OL-N1	SFP+	T10G/R10G/R2.5G	T1577/R1270	N1	C,I	SC/PC
AE-XGS-ON-Nx	SFP+	T10G/R10G	T1270/R1577	N1/N2	C,I	SC/PC

400G/800G AOC

- Application
- Ethernet
- Data Center Interconnect
- HPC Interconnect
- Breakout AOC for InfiniBand QDR, SDR, DDR/Interconnect

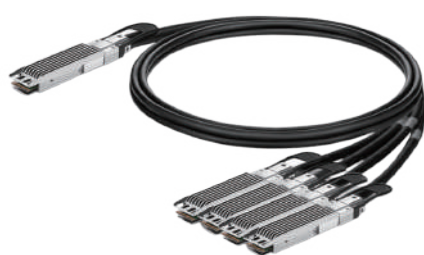


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Part Number	Data rate	Form Factor	Length	Cable Type	Wave	Transmitter Type	Receiver Type	Modulation Format	Power Consumption
AE-QDD800-AOxM	800G	QSFP-DD to QSFP-DD	1-50m	OM4	850nm	VCSEL	PIN	8x 100G-PAM4	12W
AE-OSFP800-AOxM	800G	OSFP (Finned Top) to OSFP (Finned Top)	1-100m	OM4	850nm	VCSEL	PIN	8x 100G-PAM4	14W
AE-QDD400-AOxM	400G	QSFP-DD to QSFP-DD	1-100m	OM4	850nm	VCSEL	PIN	8x 50G-PAM4	8W
AE-QDD-OSFPFL-AOxM	400G	OSFP (Flat Top) to QSFP-DD	1-100m	OM4	850nm	VCSEL	PIN	8x 50G-PAM4	10W
AE-QDD2Q56-AOxM	400G to 2x 200G	QSFP-DD to 2x QSFP56	1-100m	OM3	850nm	VCSEL	PIN	8x 50G-PAM4	8W
AE-QDD4Q56-AOxM	400G to 4x 100G	QSFP-DD to 4x QSFP56	1-100m	OM3	850nm	VCSEL	PIN	8x 50G-PAM4	400G 12W 100G 3.5W
AE-OSFP2Q56-AOxM	400G to 2x 200G	OSFP (Finned Top) to 2x QSFP56	1-100m	OM3/OM4	850nm	VCSEL	PIN	8x 50G-PAM4	OSFP 8W QSFP56 4W
AE-QDD4Q28-AOxM	400G to 4x 100G	QSFP-DD to 4x QSFP28	1-100m	OM3	850nm	VCSEL	PIN	8x 50G-PAM4 4x 25G-NRZ	QSFP-DD 12W QSFP28 3.5W
AE-QDD8S56-AOxM	400G to 8x 50G	QSFP-DD to 8x 50G SFP56	1-100m	OM3	850nm	VCSEL	PIN	8x 50G-PAM4	QSFP-DD 10W SFP56 3W
AE-OSFP4Q28-AOxM	400G to 4x 100G	OSFP (Finned Top) to 4x QSFP28	1-100m	OM3	850nm	VCSEL	PIN	8x 50G-PAM4 4x 25G-NRZ	OSFP 10W QSFP28 5.5W

400G/800G DAC/AEC/ACC

- Application
- Ethernet
- InfiniBand HDR (NVIDIA Compatible)
- Data Center & Networking Equipment
- High Performance Computing (HPC)



>> Parameter

Part Number	Data rate	Form Factor	Length	Wire AWG	Modulation Format	Cable Type	Power Consumption
DAC							
AE-QDD800-DxM	800G	QSFP-DD to QSFP-DD	0.5-1.5m	28-30AWG	8x100G-PAM4	Passive	0.005W
AE-OSFP800FL-DxM	800G	OSFP (Flat Top) to OSFP (Flat Top)	0.5-3m	26-30AWG	8x100G-PAM4	Passive	0.1W
AE-OSFP800-DxM	800G	OSFP (Finned Top) to OSFP (Finned Top)	0.5-3m	26-30AWG	8x100G-PAM4	Passive	0.1W
AE-O82O4-DxM	800G to 2x 400G	800G OSFP (Finned Top) to 2x 400G OSFP (Finned Top)	0.5-3m	28-30AWG	8x100G-PAM4	Passive	0.1W
AE-O82O4FL-DxM	800G to 2x 400G	800G OSFP (Finned Top) to 2x 400G OSFP (Flat Top)	0.5-3m	26-30AWG	8x100G-PAM4	Passive	0.1W
AE-O82Q112-DxM	800G to 2x 400G	800G OSFP (Finned Top) to 2x 400G QSFP112	0.5-2m	28-30AWG	8x100G-PAM4	Passive	0.1W
AE-O84O2-DxM	800G to 4x 200G	800G OSFP (Finned Top) to 4x200G OSFP (Finned Top)	0.5-2m	28-30AWG	8x100G-PAM4	Passive	0.5W
AE-O84Q2FL-DxM	800G to 4x 200G	800G OSFP (Finned Top) to 4x 200G OSFP (Flat Top)	0.5-2m	28-30AWG	8x100G-PAM4	Passive	0.1W
AE-O84Q112-DxM	800G to 4x 200G	800G OSFP (Finned Top) to 4x 200G QSFP112	0.5-2m	28-30AWG	8x100G-PAM4	Passive	0.1W
AE-QDD400-DxM	400G	QSFP-DD to QSFP-DD	0.5-3m	26-30AWG	8x50G-PAM4	Passive	0.1W
AE-OSFP400FL-DxM	400G	OSFP (Flat Top) to OSFP (Flat Top)	0.5-2m	28-30AWG	4x100Gb-PAM4	Passive	0.1W
AE-QSFP112-DxM	400G	QSFP 112 to QSFP 112	0.5-1.5m	26AWG	4x100Gb-PAM4	Passive	0.1W
AE-QDD-OSFPFL-DxM	400G	OSFP (Flat Top) to QSFP-DD	0.5-2m	28-30AWG	4x100Gb-PAM4	Passive	0.1W
AE-QDD2Q56-DxM	400G to 2x 200G	QSFP-DD to 2x QSFP56	0.5-3m	28-30AWG	8x50G-PAM4	Passive	0.1W
AE-QDD4Q56-DxM	400G to 4x 100G	QSFP-DD to 4x QSFP56	0.5-3m	28-30AWG	400G-8x50G PAM4 100G-2x50G PAM4	Passive	0.1W
AE-QDD8S56-DxM	400G to 8x 50G	QSFP-DD to 8x SFP56	0.5-3m	28-30AWG	8x50G-PAM4	Passive	0.1W
AE-OSFP2Q56-DxM	400G to 2x 200G	OSFP (Finned Top) to 2x QSFP56	1-3m	28-30AWG	8x50G-PAM4	Passive	0.1W
AE-OSFP4Q56-DxM	400G to 4x 100G	OSFP (Finned Top) to 4x QSFP56	0.5-3m	28-30AWG	8x50G-PAM4	Passive	0.1W
AEC							
AE-QDD800-AExM	800G	QSFP-DD to QSFP-DD	1-5m	28-32AWG	8x100G-PAM4	Active	12W
AE-OSFP800-AExM	800G	OSFP (Finned Top) to OSFP (Finned Top)	1-5m	28-32AWG	8x100G-PAM4	Active	12W
AE-O82O4FL-AExM	800G to 2x 400G	800G OSFP (Finned Top) to 2x 400G OSFP (Flat Top)	1-5m	28-32AWG	8x100G-PAM4	Active	800G 12W 400G 6W
AE-QDD4Q28-AExM	400G to 4x 100G	QSFP-DD to 4x QSFP28	3m	30AWG	8x 50G-PAM4 4x 25G-NRZ	Active	QSFP-DD 8.5W
ACC							
AE-QDD800-ACxM	800G	QSFP-DD to QSFP-DD	0.5-2.5m	28-30AWG	8x100G-PAM4	Active	1.2W
AE-OSFP800-ACxM	800G	Twin-port OSFP (Finned Top) to	1-5m	26-30AWG	8x100G-PAM4	Active	1.3W
AE-O82O4FL-ACxM	800G to 2x 400G	800G OSFP (Finned Top) to 2x 400G OSFP (Flat Top)	1-5m	26-30AWG	8x100G-PAM4	Active	800G 1.5W 400G 0.6W
AE-QSFP112-ACxM	400G	QSFP112 to QSFP112	1-3m	30AWG	4x 100G-PAM4	Active	1.5W
AE-QDD400-ACxM	400G	QSFP-DD to QSFP-DD	1-5m	28-30AWG	8x 50G-PAM4	Active	2.5W
AE-QDD2Q56-ACxM	400G to 2x 200G	QSFP-DD to 2x QSFP56	1-5m	28-30AWG	8x 50G-PAM4	Active	3W
AE-QDD4Q56-ACxM	400G to 4x 100G	QSFP-DD to 4x QSFP56	1-5m	28-30AWG	8x 50G-PAM4	Active	4W

10~200G AOC Series

- Active Optical Cables
- 200G AOC for 200G Data center/InfiniBand
- 100G AOC for 100G Ethernet/Data center/InfiniBand
- 40G AOC for 40G Ethernet/Data center
- Breakout AOC for InfiniBand QDR, SDR, DDR/Interconnect
- 25G SFP28 AOC for 25G Ethernet/Data center
- 10G SFP+ AOC for 10G Ethernet



>> Parameter

Part number	Data rate	Form factor	Reach	Transmitter	Receiver
AE-QDD200-AOxM	200G	QSFP-DD to QSFP-DD	0.5~100m	850nm VCSEL	PIN
AE-QSFP56-AOxM	200G	QSFP56 to QSFP56	0.5~100m	850nm VCSEL	PIN
AE-QDD2Q28-AOxM	200G	QSFP-DD to 2x 100G QSFP28	0.5~100m	850nm VCSEL	PIN
AE-Q562Q56-AOxM	200G	QSFP56 to 2x QSFP56	0.5~100m	850nm VCSEL	PIN
AE-Q564S56-AOxM	200G	QSFP56 to 4x SFP56	0.5~100m	850nm VCSEL	PIN
AE-QDD8S28-AOxM	200G	QSFP-DD to 8x 25G SFP28	0.5~100m	850nm VCSEL	PIN
AE-QDD8DLC-AOxM	200G	QSFP28-DD to 8x Duplex-LC	0.5~100m	850nm VCSEL	PIN
AE-QSFP28-AOxM	100G	QSFP28 to QSFP28	0.5~100m	850nm VCSEL	PIN
AE-Q284S-AOxM	100G	QSFP28 to 4xSFP28	0.5~100m	850nm VCSEL	PIN
AE-QSFP+-AOxM	40G	QSFP to QSFP	0.5~100m	850nm VCSEL	PIN
AE-Q4S-AOxM	40G	QSFP to 4xSFP+	0.5~100m	850nm VCSEL	PIN
AE-SFP28-AOxM	25G	SFP28 to SFP28	0.5~100m	850nm VCSEL	PIN
AE-SFP+-AOxM	10G	SFP+ to SFP+	0.5~100m	850nm VCSEL	PIN

10~200G DAC Series

- Direct Attached Cables
- 200G DAC for 200G Ethernet Interoperability
- 100G DAC for 100G Ethernet/Enterprise network
- 40G DAC for 40G Ethernet/Data center
- Breakout DAC for Interconnect
- 25G SFP28 DAC for 25G Ethernet/Data center
- 10G SFP+ DAC for 10G Ethernet



>> Parameter

Part number	Data rate	Form factor	Reach	Temp	Mark
AE-QSFP56-DxM	200G	QSFP56 to QSFP56	0.5~3m	0~70℃	Passive
AE-QDD200-DxM	200G	QSFP-DD to QSFP-DD	0.5~3m	0~70℃	Passive
AE-QDD2Q28-DxM	200G	QSFP-DD to 2x QSFP28	0.5~3m	0~70℃	Passive
AE-Q562Q56-DxM	200G	QSFP56 to 2x QSFP56	0.5~3m	0~70℃	Passive
AE-Q564S56-DxM	200G	QSFP56 to 4x SFP56	0.5~3m	0~70℃	Passive
AE-QDD4Q28-DxM	200G	QSFP-DD to 4x QSFP28	0.5~3m	0~70℃	Passive
AE-QDD8S28-DxM	200G	QSFP-DD to 8x SFP28	0.5~3m	0~70℃	Passive
AE-QSFP56-ACxM	200G	QSFP56 to QSFP56	1~7m	0~70℃	Active
AE-Q562Q56-ACxM	200G	QSFP56 to 2x QSFP56	1~7m	0~70℃	Active
AE-QSFP28-DxM	100G	QSFP28 to QSFP28	0.5~5m	0~70℃	Passive
AE-Q284S-DxM	100G	QSFP28 to 4xSFP28	0.5~5m	0~70℃	Passive
AE-QSFP+-DxM	40G	QSFP to QSFP	0.5~7m	0~70℃	Passive
AE-Q4S-DxM	40G	QSFP to 4xSFP+	0.5~7m	0~70℃	Passive
AE-SFP28-DxM	25G	SFP28 to SFP28	0.5~5m	0~70℃	Passive
AE-SFP+-DxM	10G	SFP+ to SFP+	0.5~10m	0~70℃	Passive

Media Converter Series

The media converter transforms Ethernet signals from CAT cables to optical fiber, extending the transmission distance up to 160 km. This provides an economical solutionfor achieving long-distance transmission using existing infrastructure.

- Features
 - Max. 2M buffer memory built in chip
 - Auto negotiation back pressure flow control for full duplex IEEE802.3 X and half duplex
 - Automatic identification of MDI/MDI-X cross line
 - High-performance1.4Gbps memory bandwidth
 - LED display for PWR,link/activity, full/half duplex,100M,1000M
 - Forward 1600 bytes packet for management
 - Max. transmission distance can be 160km
 - SC receptable or pigtail optional
- Optional Features
 - Supports link fault pass through function (LFP)
 - Supports for end fault function
 - Support EEPROM configuration
 - Pass all packets without address and CRC check
 - Forward fragments



Media Converter Series

>> Parameter

Part number	Description
10/100M Dual Fiber Media Converter	
AE-F1SC1T-MM	10/100Base-Tx to 100Base-FX TX1310nm Multimode 2KM
AE-F1SC1T-10	10/100Base-Tx to 100Base-FX TX1310nm Singlemode 10KM
AE-F1SC1T-25	10/100Base-Tx to 100Base-FX TX1310nm Singlemode 25KM
AE-F1SC1T-40	10/100Base-Tx to 100Base-FX TX1310nm Single mode 40KM
AE-100A	10/100Base-Tx to 100Base-LX with SFP Port
10/100/1000M Dual Fiber Media Converter	
AE-1000A	10/100/1000Base-Tx to 1000Base-LX with SFP Port
AE-G1SC1T-MM	10/100/1000Base-Tx to 1000Base-SX TX850nm multimode 550M
AE-G1SC1T-10	10/100/1000Base-Tx to 1000Base-LX TX1310nm Singlemode 10KM
AE-G1SC1T-20	10/100/1000Base-Tx to 1000Base-LX TX1310nm Singlemode 20KM
AE-G1SC1T-40	10/100/1000Base-Tx to 1000Base-LX TX1310nm Singlemode 40KM
100M Single Fiber Media Converter	
AE-F1SC1T-10-A	10/100Base-Tx to 100Base-FX TX1310nm Singlemode 10KM SC
AE-F1SC1T-10-B	10/100Base-Tx to 100Base-FX TX1550nm Singlemode 10KM SC
AE-F1SC1T-20-A	10/100Base-Tx to 100Base-FX TX1310nm Singlemode 20KM SC
AE-F1SC1T-20-B	10/100Base-Tx to 100Base-FX TX1550nm Singlemode 20KM SC
AE-F1SC1T-25-A	10/100Base-Tx to 100Base-FX TX1310nm Singlemode 25KM SC
AE-F1SC1T-25-B	10/100Base-Tx to 100Base-FX TX1550nm Singlemode 25KM SC
AE-F1SC1T-40-A	10/100Base-Tx to 100Base-FX TX1310nm Singlemode 40KM SC
AE-F1SC1T-40-B	10/100Base-Tx to 100Base-FX TX1550nm Singlemode 40KM SC
1000M Single Fiber Media Converter	
AE-G1SC1T-10-A	10/100/1000Base-Tx to 1000Base-FX TX1310nm Singlemode 10KM
AE-G1SC1T-10-B	10/100/1000Base-Tx to 1000Base-FX TX1550nm Singlemode 10KM
AE-G1SC1T-20-A	10/100/1000Base-Tx to 1000Base-FX TX1310nm Singlemode 20KM
AE-G1SC1T-20-B	10/100/1000Base-Tx to 1000Base-FX TX1550nm Singlemode 20KM
AE-G1SC1T-40-A	10/100/1000Base-Tx to 1000Base-FX TX1310nm Singlemode 40KM
AE-G1SC1T-40-B	10/100/1000Base-Tx to 1000Base-FX TX1550nm Singlemode 40KM
10G Media Converter	
AE-UM-10G1S1T	Mini Unmanaged 1x 100M/1G/2.5G/5G/10GBase-T RJ45 to 1x 10GBase-X SFP+ Slot 10 Gigabit
AE-UM-10G-2S	Mini Unmanaged 1x 10GBase-X to 1x 10GBase-X 2X Open SFP+ Slots
AE-10G-1S1T	1x 100M/1G/2.5G/5G/10GBase-T RJ45 to 1x 10GBase-X SFP+ Slot 10 Gigabit
Rack/chassis	
AE-1U-14P-2S	14Port Converter Integrated Rack 5V(dual power)
AE-1U-16P-2S	16Port Converter Integrated Rack 5V(dual power)

MUX DEMUX & OADM

Wavelength Division Multiplexing (WDM) devices are an advanced optical communication technology That uses different wavelengths of light to transmit signals over a single optical fiber, significantly increasing the capacity and efficiency of fiber optic communications. WDM technology is widely used in long-distance communications and metropolitan area networks, greatly promoting the rapid development of the internet and enhancing data transmission capabilities.

With continuous technological advancements, the development of WDM devices has also accelerated. From early Coarse Wavelength Division Multiplexing (CWDM) to current Dense Wavelength

Division Multiplexing (DWDM), the performance, stability, and applicability of these devices have been

>> Form Factor



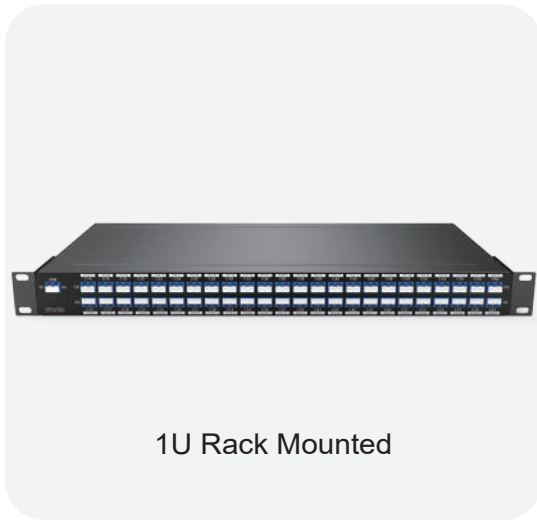
Steel Tube



ABS Box



LGX Box



1U Rack Mounted

MUX DEMUX & OADM

>> Popular Models

Part number	Description
AE-D402160M	40 Channels DWDM Mux Demux, 100GHz C21-C60, with Monitor Port, LC/UPC, Dual Fiber, 1U Rack Mount
AE-D402160M3	40 Channels DWDM Mux Demux, 100GHz C21-C60, with 1310nm and Monitor Port, LC/UPC, Dual Fiber, 1U Rack Mount
AE-C182761M	18 Channels CWDM Mux Demux, 1270-1610nm, with Monitor Port, LC/UPC, Dual Fiber, 1U Rack Mount
AE- MC082745	8 Channels CWDM Mux Demux, 1270-1450nm (Skip 1390, 1410nm), LC/UPC, Dual Fiber, LGX Box
AE-MC084761EM	8 Channels CWDM Mux Demux, 1470-1610nm, with Monitor and Expansion Port, LC/UPC, Dual Fiber, LGX Box
AE-D162136EM3	16 Channels DWDM Mux Demux, 100GHz C21-C36, with Monitor, Expansion and 1310nm Port, LC/UPC, Dual Fiber, 1U Rack Mount
AE-MD085360EM3	8 Channels DWDM Mux Demux, 100GHz C53-C60, with Monitor, Expansion and 1310nm Port, LC/UPC, Dual Fiber, LGX Box, CWDM/DWDM Hybrid
AE-D82128EM3	8 Channels DWDM Mux Demux, 100GHz C21-C28, with EXP & Mon and 1310nm Port, LC/UPC, Dual Fiber, LGX Box
AE-D162136A	16 Channels DWDM Mux Demux, 100GHz C21-C36, LC/UPC, Single Fiber, Side-A, 1U Rack Mount
AE-D164560B	16 Channels DWDM Mux Demux, 100GHz C45-C60, LC/UPC, Single Fiber, Side-B, 1U Rack Mount
AE-MC09A	9 Channels CWDM Mux Demux, 1270-1590nm, LC/UPC, Single Fiber, Side-A, LGX Box
AE-MC09B	9 Channels CWDM Mux Demux, 1290-1610nm, LC/UPC, Single Fiber, Side-B, LGX Box
AE-DOADM04F	4 Channels DWDM OADM, Dual Fiber, East or West, FMU Plug-in Module
AE-DOADM08U	8 Channels DWDM OADM, Dual Fiber, East or West, 1U Rack Mount
AE-DOADM16U	16 Channels DWDM OADM, Dual Fiber, East or West, 1U Rack Mount
AE-DOADM04FA/B	4 Channels DWDM OADM, Single Fiber, East or West, FMU Plug-in Module, Side-A/ Side-B
AE-DOADM08UA/B	8 Channels DWDM OADM, Single Fiber, East or West, 1U Rack Mount, Side-A/ Side-B
AE-COADM04F	4 Channels CWDM OADM, Dual Fiber, East or West, FMU Plug-in Module
AE-COADM04FA/B	4 Channels CWDM OADM, Single Fiber, East or West, FMU Plug-in Module, Side-A/ Side-B

Optical Amplifiers

>>Applications

- Pre-Amplifier(PA)
- Online-Amplifier(LA)
- Booster-Amplifier(BA)
- DWDM optical system



>>Features

- Low noise figure:typical 5.0dB
- High flatness: typical 1dB
- Cover whole C-Band: carrie 40 or 80 chs
- Redundancy hot swap power module: 110/220VAC and 48VDC can plug Mix
- Perfect Network Interface, standard RJ45 and RS232 industrial standard interface
- Provide upper computer software, query and set up optical amplifier equipment, use Ethernet network or serial port access

>>Popular types

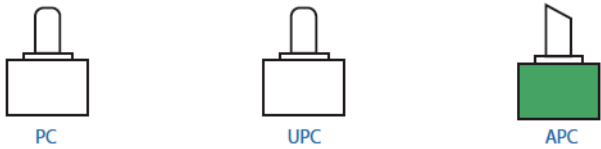
Part number	Description
AE-EDFA-BA-G1520	DWDM EDFA, BA G15/20dB,Gain 20dB, Max Output 20dB, LC/UPC,Dual Power,1U Rack
AE-EDFA-LA-G2520	DWDM EDFA Card, LA G25/20dB,Gain 20dB, Max Output 20dB, LC/UPC,Dual Power,1U Rack
AE-EDFA-LA-G2020	DWDM EDFA Card, LA G20/20dB,Gain 20dB, Max Output 20dB, LC/UPC,Dual Power,1U Rack
AE-EDFA-PA-G2016	DWDM EDFA Card, PA G20/16dB,Gain 20dB, Max Output 16dB, LC/UPC,Dual Power,1U Rack
AE-EDFA-BAG1520-PAG2016	DWDM EDFA,2CH BA+PA G15/20dB,Gain 20dB, Max Output 20dB,PA G20/16dB,Gain 20dB, LC/UPC,Dual Power,1U Rack
AE-EDFA-2LA-G2520	DWDM EDFA,2CH LA+LA G25/20dB,Gain 20dB, Max Output 20dB, LC/UPC,Dual Power,1U Rack
AE-EDFA-2LA-G2020	DWDM EDFA,2CH LA+LA G20/20dB,Gain 20dB, Max Output 20dB, LC/UPC,Dual Power,1U Rack
AE-DCM-40-C	DCM Card 40KM DCF-based Passive Dispersion Compensation Module, LC/UPC,used in ONT system, take 2-slots
AE-DCM-80-C	DCM Card 80KM DCF-based Passive Dispersion Compensation Module, LC/UPC,used in ONT system series, take 2-slots
AE-RB-1x2	R/B Card 1x2 Single Fiber DWDM Splitter Red/Blue C Band Filter, used in ONTsystem, take one slot
AE-RB-1x1	R/B Card 1x1 Single Fiber DWDM Splitter Red/Blue C Band Filter, used in ONTsystem series, take one slot

Optical Patch Cord

>>Fiber Connectors Selection Guide



>>Polish Options



>>Optical Patch cord



Optical Patch Cord

>> Parameter

Part Number	Description
AE-SCSX-OS2-XX	SC/UPC-SC/UPC, SM OS2, Simplex, 2.0mm, LSZH, XXm, Yellow
AE-LCSCSX-OS2-XX	LC/UPC-SC/UPC, SM OS2, Simplex, 2.0mm, LSZH, XXm, Yellow
AE-LCSX-OS2-XX	LC/UPC-LC/UPC, SM OS2, Simplex, 2.0mm, LSZH, XXm, Yellow
AE-SCDX-OS2-XX	SC/UPC-SC/UPC, SM OS2, Duplex, 2.0mm, LSZH, XXm, Yellow
AE-LCSCDX-OS2-XX	LC/UPC-SC/UPC, SM OS2, Duplex, 2.0mm, LSZH, XXm, Yellow
AE-LCDX-OS2-XX	LC/UPC-LC/UPC, SM OS2, Duplex, 2.0mm, LSZH, XXm, Yellow
AE-SCDX-OM3-XX	SC/UPC-SC/UPC, OM3 , Duplex, 2.0mm, LSZH, XXm, Aqua
AE-LCSCDX-OM3-XX	LC/UPC-SC/UPC, OM3 , Duplex, 2.0mm, LSZH, XXm, Aqua
AE-LCDX-OM3-XX	LC/UPC-LC/UPC, OM3 , Duplex, 2.0mm, LSZH, XXm, Aqua
AE-SCDX-OM4-XX	SC/UPC-SC/UPC, OM4 , Duplex, 2.0mm, LSZH, XXm, Aqua
AE-LCSCDX-OM4-XX	LC/UPC-SC/UPC, OM4 , Duplex, 2.0mm, LSZH, XXm, Aqua
AE-LCDX-OM4-XX	LC/UPC-LC/UPC, OM4 , Duplex, 2.0mm, LSZH, XXm, Aqua
AE-12F-MPO-OM3-XX	MPO Female to MPO Female 12 Fibers Type B LSZH MM OM3 XXm
AE-12F-MPO-OM4-XX	MPO Female to MPO Female 12 Fibers Type B LSZH MM OM4 XXm
AE-08F-MPO4LC-OM4-XX	MPO Female to 4 LC/UPC Duplex 8 Fibers Type B LSZH MM OM4 XXm
AE-12F-MPO6LC-OM4-XX	MPO Female to 6 LC/UPC Duplex 12 Fibers Type B LSZH MM OM4 XXm
AE-12F-MPO-OS2-XX	MPO Female to MPO Female 12 Fibers Type B LSZH SM OS2 XXm
AE-08F-MPO4LC-OS2-XX	MPO Female to 4 LC/UPC Duplex 8 Fibers Type B LSZH SM OS2 XXm
AE-12F-MPO6LC-OS2-XX	MPO Female to 6 LC/UPC Duplex 12 Fibers Type B LSZH SM OS2 XXm

>> Customization

- 1. Single mode Patch cable fiber grade: G.657.A1 (Compatible with G.652.D)
- 2. Cable Diameter: 2.0mm and 3.0mm for option
- 3. Connector and Length can be customized

Network Patch Cable

- Features
 - Cable Type: CAT5E/CAT6/CAT6A/CAT7/CAT8
 - Conductor: BC or CCAM
 - Shielding: UTP/FTP/SFTP/SSTP
 - Insulation: HD-PE
 - Jacket: PVC
 - Rate Temperature: 75°C
 - Impedance: 100±15%
 - Frequency: 100MHz (cat5/5e), 500MHz (cat6/6a), 600MHz (cat7), 2000MHz (cat8)
 - Connector: Standard/Shielded 8P8C (or gold plated)
 - Reference Standard: ANSI/TIA/EIA-568B/IEC 11801

Structure

