

AOM-2100

Gigabit Ethernet Media Converter

100/1000Base-T to 1000Base-X Converter for LED Display



Overview

AOM-2100 Gigabit Ethernet Media Converters are 100/1000Base-T to 1000Base-SX/LX converter, which extend the 1000Mbps twisted-pair network segments up to 120km over fiber technology. It provides transparent transmission between 1000M copper and multi-mode or single-mode fiber, including WDM wavelength. It is widely used in LED Display transmission systems.

Features

- Transparently transmission for extreme low latency data forwarding
- Full duplex and Half duplex back pressure auto-negotiation
- Excellent compatibility for different brand's master card
- Copper port support Auto-Cross for MDI/MDIX
- Fiber port provides SFP/SC/FC/ST optional
- Support 10K Jumbo Frame
- Plug-and-play operation
- LED indicators for working status
- ESD, surge protection
- IP30 enclosure
- Providing Chassis and wall-mounted installation
- Low power consumption, lead-free process

Application

- LED Display Transmission System
- Network Communication
- ISP Backhaul Networking

Technical Specifications

Performance	
Standard	IEEE802.3ab, IEEE802.3z, IEEE802.3x
Processing type	BYPASS
Switch Capacity	4Gbps
Packet forwarding Rate	2.97Mpps/s
Jumbo Frame	16k
Interface	
Copper Port	100/1000M, RJ45 Auto-Cross for MDI/MDIX Cat5/Cat5e/Cat6, ≤100m
Fiber Port	1000Base-SX/LX OS1/OS2 ≤120km; OM1/OM2 ≤550m
Power Port	DC socket, φ2.5mm
LED indicators	PWR, FDX, Link/Act, 1000M, 100M
Electrical characteristics	
Input Voltage	5Vdc
Power Consumption	<2W
Physical characteristics	
Enclosure	Metal IP30
Installation	Wall-mounted (Optional kits) Rack-mounted (19" 2U 14-slot)
Dimension	94x71x26mm
Net Weight	160g
Environment	
Working Temperature	-20~60°C
Storage Temperature	-40~85°C
Relative Humidity	5%~95% (no condensation)
Power Adaptor	
Input Voltage	100-240Vac 50/60Hz, 36~72Vdc optional
Output	5Vdc 1A

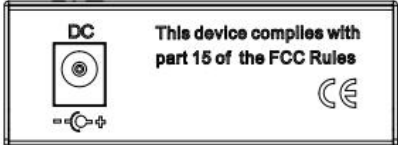
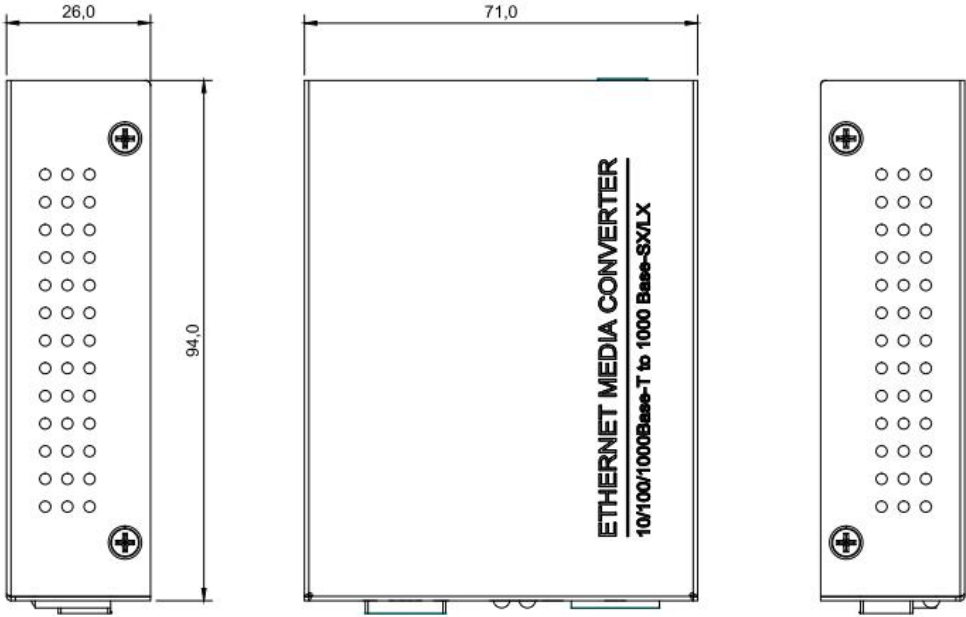
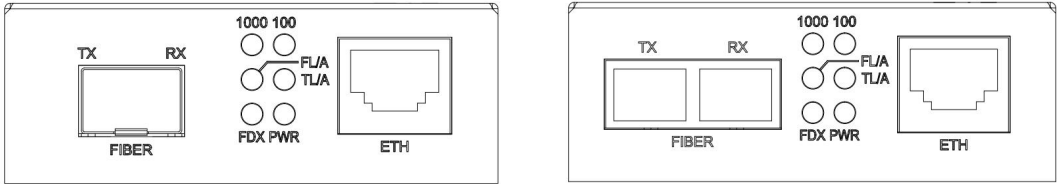
Order Information

Model	Description
AOM-2100-SFP	100/1000M, SFP slot
AOM-2100-M05	100/1000M, MM 850nm SC 550m
AOM-2100-S20	100/1000M, SM 1310nm SC 20km
AOM-2100-A20	100/1000M, SM TX1310/RX1550nm SC 20km
AOM-2100-B20	100/1000M, SM TX1550/RX1310nm SC 20km
Note: 40/60/80/120km available, FC/ST available	

Related Products

Model	Description
SFP Module	
SFP-M1285L-05	1.25G MM 850nm LC 550m
SFP-S1213L-20	1.25G SM 1310nm LC 20km
SFP-B1235L-20	1.25G SM TX1310/RX1550nm LC 20km
SFP-B1253L-20	1.25G SM TX1550/RX1310nm LC 20km
40/60/80/100/120km is available	
Installation Accessories	
AOR-14	19" 2U, 14-slot rack with dual power supply
TK10	Wall-mounted kits, 87x12x8.2mm, hole L=73mm ϕ 3.0mm

Structure diagram (mm)



Notes: The copper port of the device only supports 100/1000M. The silkscreen with “10” is only for general use of housing, and the field application never needs 10M.



For further information, please visit our website <https://www.aoatech.com>

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