

AOM-3102

Gigabit Ethernet Media Converter

10/100/1000M 1GX2GE



Overview

AOM-3102 is Gigabit Ethernet Media Converters, which extends the 2x 10/100/1000Mbps twisted-pair network segments up to 120km over fiber technology. The series media converter is compact and cost-effective design, providing 2-port 10/100/1000Mbps auto-negotiation RJ45 connector and 1-port 1.25Gbps full-duplex on the fiber port with SFP/SC/FC/ST interface optional. It's widely used in security monitoring, wireless networking, optical fiber access, and other application scenarios.

Features

- 2x 10/100/1000M auto-negotiation RJ45 with auto-MDI/MDI-X
- Fiber port provides SFP/SC/FC/ST, multi-mode/single mode optional
- Full duplex and Half duplex operation with IEEE 802.3x flow control
- Support 9K Jumbo Frame
- LED indicators for working status
- Support hot plug-and-play
- -20~60°C working temperature
- IP30 enclosure
- Wall-mounted and rack-mounted Installation
- Low power consumption, lead-free process
- CE/FCC/ROHS compliance

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

Technical Specifications

Performance	
Standard	IEEE802.3,IEEE802.3u,IEEE802.3ab,IEEE802.3z,IEEE802.3x
Data forwarding	Store and forward
Switch capacity	6Gbps/non-blocking
Packet forwarding Rate	4.46Mpps
Mac address	2Kbit
Buffer Space	1M
Jumbo Frame	9k
Interface	
Copper Port	10/100/1000M Auto-negotiation, 2x RJ45, Auto-Cross for MDI/MDIX Cat5/Cat5e/Cat6, ≤100m
Fiber Port	1.25G SFP/SC/FC/ST OS1/OS2 ≤120km; OM1/OM2 ≤550m (2km as request)
LED indicators	
Status	PWR, FX, FL/A, TL/A, 1000M
Electrical characteristics	
Input Voltage	5~12Vdc
Power Consumption	<2W
Power connector	DC socket φ2.5mm
Power Adaptor	100~240Vac 50/60Hz input, 5Vdc 1A output
Physical characteristics	
Dimension	94x71x26mm
Protection	IP30
Installation	Rack mounted, Wall-mounted
Environment	
Working Temperature	-20~60°C
Storage Temperature	-40~85°C
Relative Humidity	5%~95% (no condensation)
Certification	
Safety	EN62368
EMC	EN55032, EN55035, FCC Part 15 Subpart B Class A IEC61000-3-2, IEC 61000-3-3, IEC61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC61000-4-6, IEC61000-4-8, IEC61000-4-11
Reliability	IEC 60068-2-6, IEC 60068-2-27, IEC 60068-2-32
ROHS	ROHS 2.0

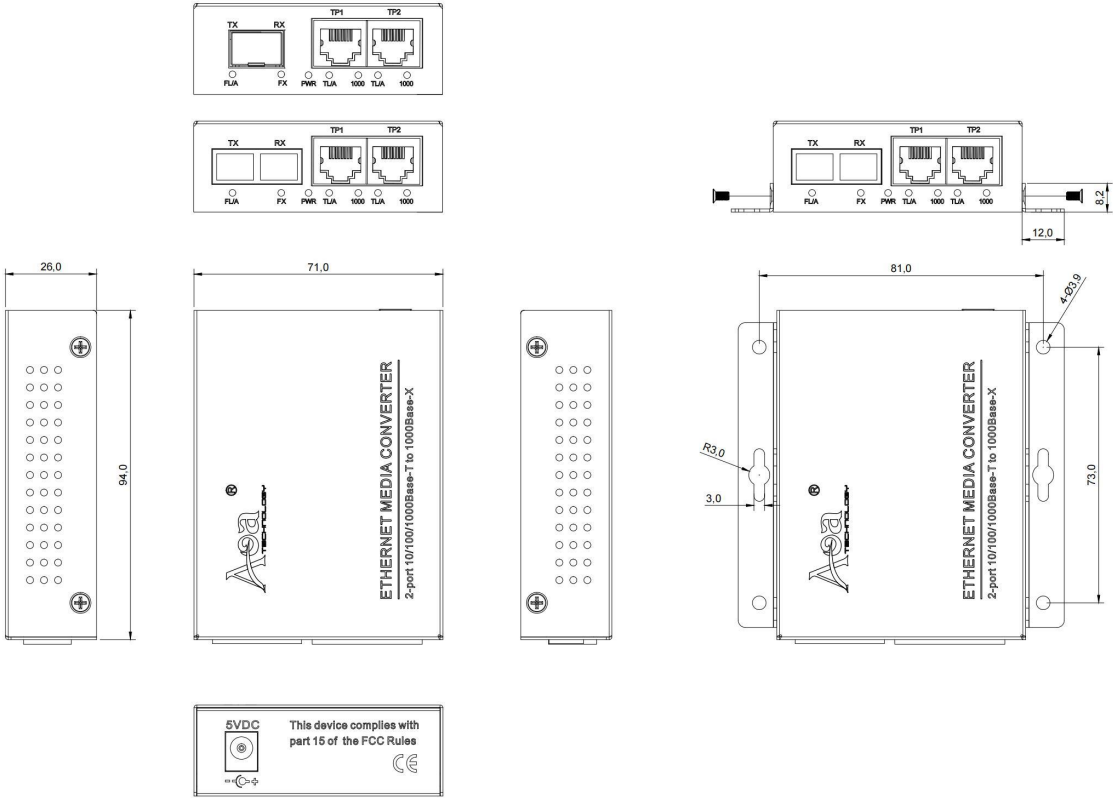
Order Information

Model	Description
AOM-3102-SFP	10/100/1000M 2-RJ45, SFP Slot
AOM-3102-M05	10/100/1000M 2-RJ45, MM 850nm SC 550m
AOM-3102-S20	10/100/1000M 2-RJ45, SM 1310nm SC 20km
AOM-3102-A20	10/100/1000M 2-RJ45, SM TX1310/RX1550nm SC 20km
AOM-3102-B20	10/100/1000M 2-RJ45, SM TX1550/RX1310nm SC 20km
FC/ST available; 40/60/80/120km 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)



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