

AOM-3201

Gigabit Ethernet Media Converter

10/100/1000BASE-T to Dual 100/1000BASE-X SFP



Overview

The AOM-3201 Gigabit Media Converter is engineered to provide a high-performance, stable solution for fiber-optic data transmission. It features one 10/100/1000Mbps auto-negotiation RJ45 Ethernet port and dual 100/1000Base-X SFP fiber ports, enabling seamless integration between fiber and copper networks. Designed with both switch mode and **fiber link redundant mode**, ensures continuous network service, even in the event of a fiber link failure. This makes it an ideal choice for mission-critical applications in enterprise networks, telecom infrastructure, and data centers.

Features

Auto-Negotiation RJ45 Port

Equipped with one 10/100/1000Mbps auto-negotiation RJ45 port, the AOM-3201 automatically adjusts to optimal network speeds, ensuring compatibility with existing Ethernet devices.

Dual 100/1000Base-X SFP Fiber Ports

The media converter provides two SFP fiber optic ports, supporting both 100Base-FX and 1000Base-X standards. This flexibility allows for easy scalability and the use of various types of fiber connections.

Switch Mode and Fiber Link Redundant Mode

Supports switch mode for efficient data switching and fiber link redundant mode for downlink protection, ensures network remains operational in the event of a failure or disruption in one of the fiber links.

High Stability and Reliability

Designed for high-traffic environments, delivers reliable and uninterrupted network performance, ensuring smooth data transmission with minimal downtime.

Compact and Easy to Install

With a compact form factor, it's easy to deploy in a variety of environments. Its plug-and-play design makes installation quick and simple.

2U 19" Rack-Mountable

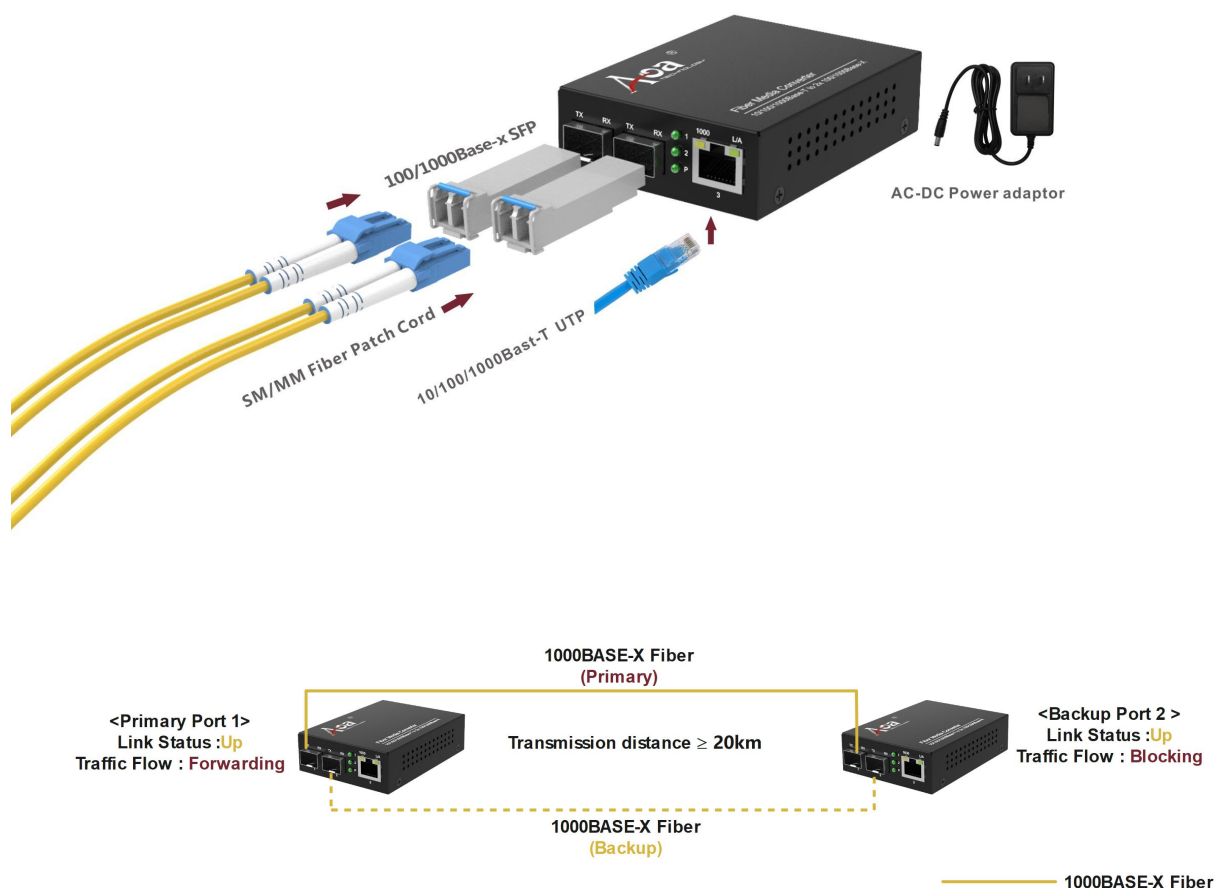
The converter is designed for easy installation in standard 2U 19-inch network racks, allowing for space-efficient deployment in both small and large-scale environments.

Versatile Application

Perfect for enterprise networks, telecom infrastructure, and data centers, it is ideal for connecting remote network segments, extending network reach, or bridging different network types.

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	8Gbps/non-blocking
Packet forwarding Rate	4.46Mpps
Mac address	8Kbit
Buffer Space	1M
Jumbo Frame	10k
Interface	
Copper Port	10/100/1000M Auto-negotiation, Auto-Cross for MDI/MDIX Cat5/Cat5e/Cat6, ≤100m
Fiber Port	1.25G/155M SFP OS1/OS2 ≤120km; OM1/OM2 ≤550m (2km as request)
LED indicators	
Status	PWR, FL/A, TL/A, 1000M
Electrical characteristics	
Input Voltage	5~12Vdc
Power Consumption	<3W
Power connector	DC socket φ2.5mm
Power Adaptor	100~240Vac 50/60Hz input, 5Vdc 1A output
Physical characteristics	
Dimension	94x71x26mm
Protection	IP30 Metal
Installation	Wall-mounted, Rack mounted
Environment	
Working Temperature	-20~60°C
Storage Temperature	-40~85°C
Relative Humidity	5%~95% (no condensation)
Certification	
Safety	EN62368-1
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, IEC61000-4-11
Reliability	IEC 60068-2-6, IEC 60068-2-27, IEC 60068-2-32
ROHS	ROHS 2.0

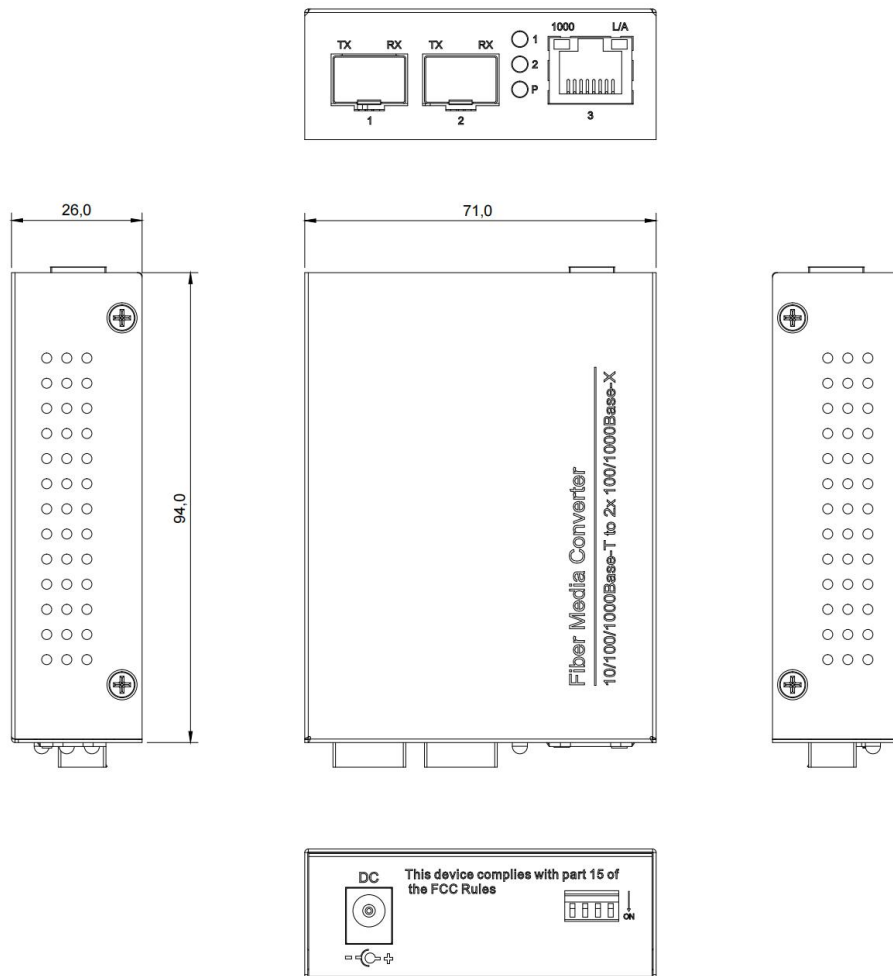
Order Information

Model No.	Description
AOM-3201-SFP	10/100/1000M, 2x SFP Slot, Ext. AC/DC 5V1A Power Adaptor

Related Products

Model No.	Description
SFP Module	
SFP-M1513L-02	155M MM 1310nm LC 2km
SFP-S1513L-20	155M SM 1310nm LC 20km
SFP-B1535L-20	155M SM TX1310/RX1550nm LC 20km
SFP-B1553L-20	155M SM TX1550/RX1310nm LC 20km
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
Installation Accessories	
AOR-14-2A	2U 19" 14-slot rack, dual 100~240Vac Input
AOR-14-2D	2U 19" 14-slot rack, dual 36~72Vdc Input
TK10	Wall-mounted kits, 87x12x8.2mm, hole L=73mm ϕ 3.0mm

Structure diagram (mm)



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