

Industrial Redundant Managed Ethernet Fiber Switch with 24 Port 12 x 10/100/1000BaseT(X) Ports, 12 x 1000M SFP Ports



DESCRIPTION

The ALBA FIBER SYSTEMS Series AFS8924M, is a Layer 2, network managed Industrial Ethernet Fiber Switch with twelve (12) 10/100/1000Base-T/TX ports and twelve (12) 1000M user selectable SFP options. Units feature MDI/MDIX Full/Half Duplex Auto-Negotiation, 10/100/1000Base Auto-sensing and compatibility with major Network Protocols. The optical interfaces operate at a 1000Mbps Ethernet rate. Redundant ring, plug-and-play performance, ensures ease of installation; no user electrical or optical adjustments are required. Features included are advanced network management functions as QoS, VLAN, IGMP, snooping/GMRP, Port Trunking, SNMP V1/V2/V3 RTSP/STP and LLDP; low power consumption, LED indicators for monitoring equipment link, operating status activity and auto resettable voltage transient fuses. Additionally, they are designed with fan-less, IP40 rated Aluminum enclosures in industrial extended temperature version. The Series AFS8924M are outstanding products in transmission of 10/100/1000Mbps Ethernet signals for industrial Layer 2 Managed Network Installation.

FEATURES

- IEEE802.1x compatible
- Layer 2 Network Managed Switch
- Twelve (12) 10/100/1000BASE-T/TX Copper Ports
- Twelve (12) 1000Mbps SFP Ports
- Redundant Ring with <20ms Link Switchover
- Network Standards: IEEE802.3 10BaseT IEEE802.3u 100BaseT/TX and 1000BaseFX IEEE802.3x Flow Control, IEEE1588PTP, IEEE1000Base-x, 1000Base-x
- Network Protocols: IGMP V1/V2/V3, GMRP, GVRP, SNMP V1/V2C/V3, DHCP, TFTP, SNT, SMTP, RMON, HTTP, HTTPS, TELNET, SSH, SYSLOG
- Supports RSTP/STP 802.1w/d/s, IEEE802.1D
- Enhanced mechanisms through QoS, TOS / DiffServ
- Supports VLAN, QVLAN IEEE 802.1q, IEEE802.1AD for Network Management
- Employs 802.3ad, LACP for Bandwidth Optimization
- Supports ACL and hardware Filtration
- Supports LLDP for Network Topology Discovery, IEEE802.1AB
- LED Indicators for Link, Activity, Data Rate
- Configuring, Debugging via Web, Telnet, ssh, Serial Port
- Port Loopback for Broadcast Storm Protection
- Port Locking for Authorized MAC Address Access
- Relay Alarm Output for Power Failure
- Din-rail, Wall Mount, fan-less Aluminum Enclosure
- Industrial Temperature version, IP40 protection
- 95-245VAC voltage input
- Compliance with CE, FCC, ROHS
- PoE or PoE+ or PoE++ selectable

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DATA

Data Interface	12 x 10/100/1000Base-T/TX, RJ-45 ports
Data Rate	10/100/1000Mbps

SWITCH PROPERTIES

MAC Table	8K
Switching Delay	<96µs
Packet Buffer	4Mbit
Processing Type	Store and Forward
Port Locking Address	For Authorized only
Priority queues	4
Maximum # of VLANs	4094
IGMP groups	256

POE PARAMETERS

Power of PoE	48V, 15.4W
Power of PoE+	48V, 25.5W

CONNECTORS

Optical	SFP Dependent
Power	American plug
Electrical	8 x RJ-45
Management Console	RS-232, RJ-45

OPTICAL PARAMETERS

Fiber Type	Depend on SFP modules
Wavelength Multimode	Depend on SFP modules
Wavelength Singlemode	Depend on SFP modules

ALARM RELAY

Power Failure Relay	1A @24VDC
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ELECTRICAL/MECHANICAL

Input Power	95-245VDC with dual input
Power Consumption	202.3W Max with PoE on all ports; 377.5W Max with PoE+ on all ports; 17.5W Max w/o PoE
Rev. Connect/Redundancy	Support
Overload Circuitry	Support
Housing / Protection Class	Aluminum, fan-less / IP40
Dimensions (W×H×D)	1.75 x 8.07 x 17.5in (45 x 205 x 445mm)
Weight	1250g
Installation	19" subrack

ENVIRONMENTAL

Operating Temp.	-40°F to 185°F; -40°C to 85°C
Storage Temp.	-58°F to 212°F; -50°C to 100°C
Relative Humidity	5 - 95% non-condensing
MTBF	411,000 hrs

REGULATORY APPROVALS

EMI	FCC Part 15, EN55022 Class A
EMS	IEC61000-4-2, 4.3, 4.4, 4.5
	IEC61000-4.6, 4.8, 4.9, 4.10 4.11
Vibration	IEC60068-2-6
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Industrial	IEC61000-6-2, IEC61850-3
Safety	CE/EN60950
Compliance	ROHS
MIB	MIB-II, Ethernet-like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, Private MIB, RMON MIB Group1, 2, 3, 9

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ORDER INFORMATION

MODEL	DESCRIPTION	# FIBER Port	# COPPER PORT	DISTANCE
AFS8924M-12SFP	12x 10/100/1000Base-T/Tx Ports, 12 x 1000M SFP Slots	12	12	See SFP options for optional distances, fiber type and connector type.
AFS8924M-12SFP-PoE	12 x 10/100/1000Base-T/Tx Ports, 15W PoE 12 x 1000M SFP Slots	12	12	
AFS8924M-12SFP-PoE+	12x 10/100/1000Base-T/Tx Ports, 30W PoE+ 12 x 1000M SFP Slots	12	12	
AFS8924M-12SFP-PoE++	12 x 10/100/1000Base-T/Tx Ports, 90W PoE ++ 12 x 1000M SFP Slots	12	12	

AFS8924M; 12 = 12 SFP Ports