

## Industrial Redundant Managed Ethernet Fiber Switch with 10 Port 8x 10/100/1000BaseT(X) Ports, 2 x 1000M SFP Ports



### DESCRIPTION

The ALBA FIBER SYSTEMS Series AFS8210M, is a Layer 2, network managed Industrial Ethernet Fiber Switch with eight (8) 10/100/1000Base-T/TX ports and designed to transmit and receive 10/100/1000Mbps data over two 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 DINRail or Wall mount, fan-less, IP40 rated Aluminum enclosures in industrial extended temperature version. With dual (2) redundant inputs 12- 55VDC voltage, the Series AFS8210M are outstanding products in transmission of 10/100Mbps Ethernet signals for industrial Layer 2 Managed Network Installation.

### FEATURES

- IEEE802.1x compatible
- Layer 2 Network Managed Switch
- Eight (8) 10/100/1000BASE-T/TX Copper Ports
- Two (2) 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, SNTF, 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
- 12-55VDC voltage, dual (2) Inputs
- Compliance with CE, FCC, ROHS
- PoE or PoE+ or PoE++ selectable

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### DATA

Data Interface	6 x 10/100Base-T/TX RJ-45 ports
Data Rate	10/100/1000Mbps Performance IEEE802.3

### 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	Terminal Block
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	12-55VDC with dual input
Power Consumption	133.2W Max with PoE on all ports; 250W Max with PoE+ on all ports; 10W Max w/o PoE
Rev. Connect/Redundancy	Support
Overload Circuitry	Support
Housing / Protection Class	Aluminum, fan-less / IP40
Dimensions (W×H×D)	1.0 x 7.36 x 6.85in (55.8 x 176 x 134mm)
Weight	1065g
Installation	DIN-Rail / Wall mount

### 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

## Industrial Redundant Managed Ethernet Fiber Switch with 10 Port 8x 10/100/1000BaseT(X) Ports, 2 x 1000M SFP Ports

### ORDER INFORMATION

MODEL	DESCRIPTION	# FIBER Port	# COPPER PORT	DISTANCE
<b>AFS8210M-D-2SFP</b> Din Rail	8 x 10/100/1000Base-T/Tx Ports, 2 x 1000M SFP Slots	2	8	See SFP options for optional distances, fiber type and connector type.
<b>AFS8210M-W-2SFP</b> Wall Mount	8 x 10/100/1000Base-T/Tx Ports, 2 x 1000M SFP Slots	2	8	
<b>AFS8210M-D-2SFP-PoE</b> Din Rail	8 x 10/100/1000Base-T/Tx Ports, 15W PoE, 2 x 1000M SFP Slots	2	8	
<b>AFS8210M-W-2SFP-PoE</b> Wall Mount	8 x 10/100/1000Base-T/Tx Ports, 15W PoE, 2 x 1000M SFP Slots	2	8	
<b>AFS8210M-D-2SFP-PoE+</b> Din Rail	8 x 10/100/1000Base-T/Tx Ports, 30W PoE+, 2 x 1000M SFP Slots	2	8	
<b>AFS8210M-W-2SFP-PoE+</b> Wall Mount	8 x 10/100/1000Base-T/Tx Ports, 30W PoE+, 2 x 1000M SFP Slots	2	8	
<b>AFS8210M-D-2SFP-PoE++</b> Din Rail	8 x 10/100/1000Base-T/Tx Ports, 90W PoE++, 2 x 1000M SFP Slots	2	8	
<b>AFS8210M-W-2SFP-PoE++</b> Wall Mount	8 x 10/100/1000Base-T/Tx Ports, 90W PoE++, 2 x 1000M SFP Slots	2	8	

**AFS8210M; D=Din Rail, W=Wall Mount; 2 =2 SFP Ports**