IKS-6728A-8PoE Series

24+4G-port Gigabit modular managed PoE+ Ethernet switches





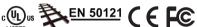






- > 8 built-in PoE+ ports compliant with IEEE 802.3af/at
- > Up to 36 W output per PoE+ port
- > 3 kV LAN surge protection for extreme outdoor environments
- > PoE diagnostics for powered-device mode analysis
- > 4 Gigabit combo ports for high bandwidth communication
- > -40 to 75°C operating temperature range at 720 W full loading
- > Supports MXstudio for easy, visualized industrial network management
- > V-ON™ ensures millisecond-level multicast data and video network recovery









Introduction

The Moxa IKS-6728A-8PoE series of Gigabit modular managed PoE+ Ethernet switches are designed to meet the demands of mission critical applications for business and industry. The IKS-6728A-8PoE comes standard with up to 24 10/100BaseT(X), or PoE/PoE+, and 4 combo Gigabit Ethernet ports. The IKS-6728A-8PoE Ethernet switches provide up to 30 watts of power per PoE+ port in standard mode, and also support high power output of up to 36 watts for heavy-duty industrial PoE devices, such as weather-proof IP surveillance cameras with wipers/heaters, high-performance wireless access points, and rugged IP phones. IKS-6728A-8PoE Ethernet switches support two

types of power input sources: 48 VDC for PoE+ ports and system power, and 110/220 VAC for system power. These Ethernet switches also support a variety of management functions, including STP/RSTP, Turbo Ring, Turbo Chain, PoE power management, PoE device autochecking, PoE power scheduling, PoE diagnostic, IGMP, VLAN, QoS, RMON, bandwidth management, and port mirroring. The IKS-6728A-8PoE series is designed especially for harsh outdoor applications with 3kV surge protection to ensure the uninterrupted reliability of PoE systems.

Features and Benefits

- Advanced PoE management functions: PoE output setting, PD failure check, PoE scheduling, and PoE diagnostics
- Command Line Interface (CLI) for quickly configuring major managed functions
- Software-based IEEE 1588 PTPv2 (Precision Time Protocol) for time synchronization of networks
- DHCP Option 82 for IP address assignment with different policies
- Supports EtherNet/IP, Modbus/TCP, and PROFINET protocols for device management and monitoring
- Turbo Ring and Turbo Chain (recovery time < 20 ms @ 250 switches), RSTP/STP, and MSTP for network redundancy
- IGMP snooping and GMRP for filtering multicast traffic
- Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network
- QoS (IEEE 802.1p/1Q) and TOS/DiffServ to increase determinism
- IEEE 802.3ad, LACP for optimum bandwidth utilization

- TACACS+, IEEE 802.1X, SNMPv3, HTTPS, and SSH to enhance network security
- SNMPv1/v2c/v3 for different levels of network management
- RMON for efficient network monitoring and proactive capability
- Bandwidth management prevents unpredictable network status with "Lock port" to restrict access to authorized MAC addresses
- Port mirroring for online debugging
- Automatic warning by exception through email, relay output
- Automatic recovery of connected device's IP addresses
- Line-swap fast recovery
- Configurable by web browser, Telnet/serial console, CLI, Windows utility, and ABC-02-USB automatic backup configurator

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: Specifications

Technology

Standards:

IEEE 802.3af/at for PoE/PoE+ output

IEEE 802.3 for 10BaseT

IEEE 802.3u for 100BaseT(X) and 100BaseFX

IEEE 802.3ab for 1000BaseT(X)

IEEE 802.3z for 1000BaseX

IEEE 802.3x for Flow Control

IEEE 802.1D-2004 for Spanning Tree Protocol

IEEE 802.1w for Rapid STP

IEEE 802.1s for Multiple Spanning Tree Protocol

IEEE 802.1Q for VLAN Tagging IEEE 802.1p for Class of Service

IEEE 802.1X for Authentication

IEEE 802.3ad for Port Trunk with LACP

Software Features

Management: IPv4/IPv6, SNMP v1/v2c/v3, LLDP, Port Mirror, DDM, RMON, DHCP Server/Client, DHCP Option 66/67/82, BootP, TFTP, SMTP, RARP, Telnet, Syslog, SNMP Inform, Flow Control, Back Pressure Flow Control

Filter: 802.1Q VLAN, Port-Based VLAN, GVRP, IGMP v1/v2/v3, GMRP Redundancy Protocols: STP. RSTP. MSTP. Turbo Ring v1/v2. Turbo

Chain, Link Aggregation

Security: RADIUS, TACACS+, SSL, SSH, Broadcast Storm Protection, Port Lock, MAC ACL, MAC Sticky, NTP Authentication, SMTP with TLS Time Management: SNTP. NTP Server/Client, IEEE 1588v2 PTP

(software-based)

Industrial Protocols: EtherNet/IP, Modbus/TCP, PROFINET

MIB: MIB-II. Ethernet-like MIB. P-BRIDGE MIB. Q-BRIDGE MIB. Bridge

MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9

Switch Properties

Priority Queues: 4

Max. Number of VLANs: 64 VLAN ID Range: VID 1 to 4094

IGMP Groups: 2048 MAC Table Size: 16 K Packet Buffer Size: 12 Mbit Jumbo Frame Size: 9.6 KB

Interface

Fast Ethernet: 8-port 10/100BaseT(X) or PoE+ 10/100BaseT(X) 2 modular slots for any 8-, or 6-port Interface Modules with 10/100BaseT(X), 100BaseFX (SC/ST connector), 100Base SFP, or PoE+ 10/100BaseT(X)

Note: See the IM-6700A datasheet for Fast Ethernet module and PoE+ module product information.

Gigabit Ethernet: 4-port 10/100/1000BaseT(X) or 100/1000Base SFP

Console Port: USB-serial console (Type B connector) Storage Port: USB storage (Type A connector for ABC-02-USB) Alarm Contact: 1 relay output with current carrying capacity of 2 A @ **30 VDC**

Power Requirements

Input Voltage:

HV models:

- 110/220 VAC for switch system
- 48 VDC for PoE system (53 to 57 VDC is recommended for PoE+ devices)

48 VDC models:

• 48 VDC (46 to 57 VDC) for switch and PoE system

Operating Voltage:

HV models:

- 85 to 264 VAC for switch system
- 46 to 57 VDC for PoE system

48 VDC models:

46 to 57 VDC for Switch and PoE system

Modular Rackmount Ethernet Switch System, IKS-6728A-8PoE series

IKS-6728A-8PoE-4GTXSFP-HV-T IKS-6728A-8PoE-4GTXSFP-HV-HV-T IKS-6728A-8PoE-4GTXSFP-48-T IKS-6728A-8PoE-4GTXSFP-48-48-T

Input Current:

HV models:

• PWR input current (switch system):

Max. 0.33 A @ 110 VAC

Max. 0.24 A @ 230 VAC

• EPS input current (PoE system):

Max. 0.29 A @ 48 VDC (excluding power consumption of PoE devices)

48 VDC models:

• PWR/EPS input current (switch and PoE systems):

Max. 0.53 A @ 48 VDC (excluding power consumption of PoF devices)

Max. 17.81 A @ 46-57 VDC (including power consumption of PoE devices in high power mode)

Overload Current Protection: Present Reverse Polarity Protection: Present

Physical Characteristics

IP Rating: IP30 protection

Dimensions: 440 x 44 x 280 mm (17.32 x 1.37 x 11.02 in) Weight: IKS-6728A-8PoE-4GTXSFP-HV-HV-T: 4250 g (9.38 lb)

IKS-6728A-8PoE-4GTXSFP-HV-T: 4150 g (9.15 lb) IKS-6728A-8PoE-4GTXSFP-48-48-T: 4250 g (9.38 lb) IKS-6728A-8PoE-4GTXSFP-48-T: 4150 g (9.15 lb)

Installation: 19-inch rack mounting

Environmental Limits

Operating Temperature: -40 to 75°C (-40 to 167°F) Storage Temperature: -40 to 85°C (-40 to 185°F) Ambient Relative Humidity: 5 to 95% (non-condensing)

Standards and Certifications

Note: Please check Moxa's website for the most up-to-date certification status.

Safety: UL 60950-1, EN 60950-1

EMC: EN 55032/24

EMI: FCC Part 15 Subpart B Class A

FMS:

IEC 61000-4-2 ESD: Contact: 6 kV: Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV

IEC 61000-4-6 CS: Signal: 10 V

IEC 61000-4-8 Rail Traffic: EN 50121-4 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6

MTBF (mean time between failures)

IKS-6728A-8PoE-4GTXSFP-48-T: 224,420 hrs IKS-6728A-8PoE-4GTXSFP-48-48-T: 215,994 hrs IKS-6728A-8PoE-4GTXSFP-HV-T: 159,173 hrs IKS-6728A-8PoE-4GTXSFP-HV-HV-T: 120.731hrs

Standard: Telcordia (Bellcore), GB

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Ordering Information

Step 1: Select Ethernet switch system

Step 2: Select interface modules

IKS-6728A-8PoE with power supply



IM-6700A modules (PoE+/Fast Ethernet) Note: The IKS-6728A-8PoE Ethernet switch system is delivered without interface modules. See the IM-6700A datasheet to determine which interface modules are suitable for your application.

IKS-6728A-8PoE Modular Rackmount Ethernet PoE+ Switch System

Modular managed rackmount Ethernet PoE+ switch with 8 built-in 10/100BaseT(X) PoE+ ports, 4 Gigabit Copper/SFP combo ports, and 2 slots for Fast Ethernet PoE+ modules. Support up to 24+4G ports with 8 built-in PoE+ ports and up to 24 PoE+ ports, -40 to 75°C operating temperature.

Available Models		Port Interfa	ce		Power Supply			
	Gigabit Ethernet		Fast Ethernet		Isolated Power Supply 1		Isolated Power Supply 2	
Front Cabling, Wide Temperature (-40 to 75°C)	10/100/1000BaseT(X) or 100/1000BaseSFP*	10/100BaseT(X) (or PoE+ ports)	100BaseFX	100BaseSFP*	HV (85 to 264 VAC)	48 VDC (46 to 57 VDC)	HV (85 to 264 VAC)	48 VDC (46 to 57 VDC)
IKS-6728A-8PoE Series								
IKS-6728A-8PoE-4GTXSFP-HV-T	4	Up to 24	Up to 12	Up to 20	1	-		-
IKS-6728A-8PoE-4GTXSFP-HV-HV-T	4	Up to 24	Up to 12	Up to 20	1	-	1	-
IKS-6728A-8PoE-4GTXSFP-48-T	4	Up to 24	Up to 12	Up to 20	-	1	-	-
IKS-6728A-8PoE-4GTXSFP-48-48-T	4	Up to 24	Up to 12	Up to 20	-	1	-	1

Note:

The IKS-6728A-8PoE series needs an external 48 VDC (46 to 57 VDC) power supply for PoE+ output

The IKS-6728A-8PoE series supports up to 24 PoE+ ports. 8 PoE+ ports are built in. Two IM-6700A-8PoE modules can add up to 16 more PoE+ ports.

The IKS-6728A-8PoE series supports 100BaseSFP and 100/1000BaseSFP slots. Please the SFP-1G and SFP-1FE datasheets for SFP module product information

Optional Accessories (can be purchased separately)

MXview: Moxa industrial network management software with 50, 100, 250, 500, 1000, or 2000 nodes

EDS-SNMP OPC Server Pro: OPC server software that works with all SNMP devices

ABC-02-USB: Configuration backup and restoration tool for managed Ethernet switches, 0 to 60°C operating temperature

Power Cords: See Appendix A for details

Package Checklist

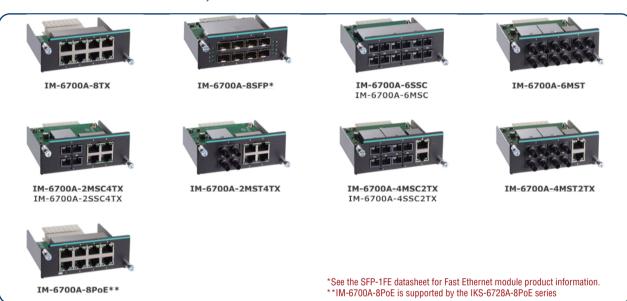
- IKS-6728A-8PoE switch
- USB Cable: CBL-USBA/B-100
- AC power cord (US type x1, EU type x1, HV model only)
- Protective caps for unused ports
- 2 rackmount ears
- Documentation and software CD
- Hardware installation guide (printed)
- Warranty card

IM-6700A Series

Fast Ethernet modules for IKS-6726A-2GTXSFP/IKS-6728A-4GTXSFP/ IKS-6728A-8PoE-4GTXSFP series switches

Specifications

Fast Ethernet Interface Modules, IM-6700A Series



Interface

RJ45 Ports: 10/100BaseT(X) auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection

Fiber Ports: 100BaseFX ports (SC/ST or SFP LC connector) PoE Ports: 10/100BaseT(X) auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection, IEEE 802.3af/at standards,

Mode A

Optical Fiber

			100BaseF	X	
		IV	lulti-Mode	Single-Mode	
Eib	or Cable Type	OM1	50/125 μm	G.652	
FIL	Fiber Cable Type		800 MHz*km	G.052	
Typical D	istance	4 km	5 km	40 km	
147	Typical (nm)	1300		1310	
Wave- length	TX Range (nm)	1260 to 1360		1280 to 1340	
longth	RX Range (nm)	1100 to 1600		1100 to 1600	
	TX Range (dBm)	-10 to -20		0 to -5	
Ontical	RX Range (dBm)	-3 to -32		-3 to -34	
Optical Power	Link Budget (dB)	12		29	
	Dispersion Penalty (dB)	3		1	

Note: When connecting a single-mode fiber transceiver, we recommend using an attenuator to prevent damage caused by excessive optical power. Note: Compute the "typical distance" of a specific fiber transceiver as follows: Link budget (dB) > dispersion penalty (dB) + total link loss (dB).

Power Requirements

Power Consumption:

IM-6700A-8TX: 1.21 W

IM-6700A-8PoE: 1.21 W (w/o PoE output)

IM-6700A-8SFP: 0.92 W

IM-6700A-6MSC/6MST/6SSC: 7.57 W

IM-6700A-4MSC2TX/4MST2TX/4SSC2TX: 5.28 W IM-6700A-2MSC4TX/2MST4TX/2SSC4TX: 3.19 W

Physical Characteristics

Weight:

IM-6700A-8TX: 225 g (0.50 lb) IM-6700A-8PoE: 260 g (0.58 lb) IM-6700A-8SFP: 295 g (0.65 lb)

IM-6700A-6MSC-6MSC/6MST/6SSC: 390 g (0.86 lb)

IM-6700A-4MSC2TX-4MSC2TX/4MST2TX/4SSC2TX: 270 g (0.60 lb) IM-6700A-2MSC4TX-2MSC4TX/2MST4TX/2SSC4TX: 270 g (0.60 lb)

Reliability

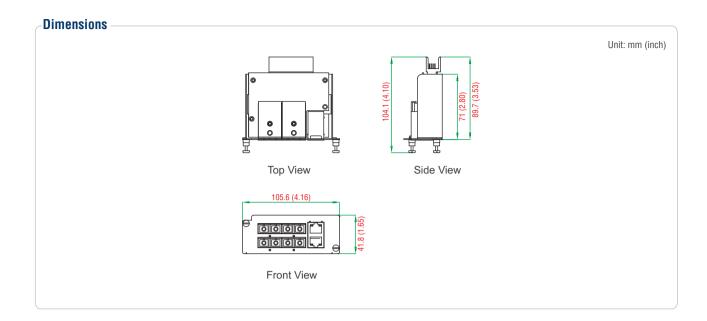
MTBF (mean time between failures):

IM-6700A-8TX: 10,412,400 hrs IM-6700A-8SFP: 3,510,110 hrs IM-6700A-6MSC: 366.119 hrs IM-6700A-6MST: 365,741 hrs IM-6700A-6SSC: 365,741 hrs IM-6700A-4MSC2TX: 530,268 hrs IM-6700A-4MST2TX: 537.942 hrs IM-6700A-2MSC4TX: 1,031,180 hrs IM-6700A-2MST4TX: 1,031,180 hrs IM-6700A-2SSC4TX: 1,031,180 hrs IM-6700A-8PoE: 338,800 hrs Database: Telcordia (Bellcore). GB

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty



: Ordering Information

Compatible Rackmount Ethernet Switch Systems



Fast Ethernet Modules, IM-6700A Series

	Port Interface								
Available Models									
Available Models	10/100BaseT(X)	Multi-Mode,	Multi-Mode,	Single-Mode,	100BaseSFP*				
		SC Connector	ST Connector	SC Connector					
IM-6700A-8TX	8	-	-	-	-				
IM-6700A-8SFP	-	-	-	-	8				
IM-6700A-6MSC	-	6	-	-	-				
IM-6700A-6MST	-	-	6	-	-				
M-6700A-6SSC	-	-	-	6	-				
IM-6700A-4MSC2TX	2	4	-	-	-				
IM-6700A-4MST2TX	2	-	4	-	-				
IM-6700A-4SSC2TX	2	-	-	4	-				
M-6700A-2MSC4TX	4	2	-	-	-				
M-6700A-2MST4TX	4	-	2	-	-				
M-6700A-2SSC4TX	4	-	-	2	-				
IM-6700A-8PoE	8 (PoE+ ports)	-	-	-	_				

Package Checklist -

- IM-6700A series interface module
- · Warranty card

SFP-1G Series

1-port Gigabit Ethernet SFP modules



- > Digital Diagnostic Monitor Function
- > -40 to 85°C operating temperature range (T models)
- > IEEE 802.3z compliant
- > Differential LVPECL inputs and outputs
- > TTL signal detect indicator
- > Hot pluggable LC duplex connector
- > Class 1 laser product, complies with EN 60825-1



: Specifications

Interface

Ethernet Ports: 1

Connectors: Duplex LC Connector or Simplex LC Connector (WDM-type only)

Optical Fiber

		Gigabit Ethernet SFP									
		SFF	-SX	SFP-	-LSX	SFP-LX	SFP-LH	SFP-LHX	SFP-ZX	SFP-EZX	SFP-EZX-120
Transceiv	er Type	Multi-	Mode	Multi-	-Mode	Single-Mode	Single-Mode	Single-Mode	Single-Mode	Single-Mode	Single-Mode
Fiber Cab	le Type	OM1	OM2	OM2	OM1	G.652	G.652	G.652	G.652	G.652	G.652
Typical Di	istance	300 m	550 m	1 km	2 km	10 km	30 km	40 km	80 km	110 km	120 km
	Typical (nm)	88	50	13	10	1310	1310	1310	1550	1550	1550
Wave- length	TX Range (nm)	830 t	o 860	1270 t	o 1355	1280 to 1355	1280 to 1355	1280 to 1340	1530 to 1570	1530 to 1570	1530 to 1570
longth	RX Range (nm)	770 t	o 860	1260 t	o 1610	1260 to 1610	1260 to 1610	1260 to 1610	1260 to 1610	1260 to 1610	1100 to 1600
	TX Range (dBm)	-4 to	-9.5	-1 t	0 -9	-3 to -9	-3 to -8	+3 to -4	+5 to 0	+5 to 0	+3 to -2
Optical	RX Range (dBm)	0 to	-18	-1 to	o - 19	-3 to -21	-3 to -23	-1 to -24	-1 to -24	-9 to -30	-8 to -33
Power	Link Budget (dB)	8	.5	1	0	12	15	20	24	30	31
	Dispersion Penalty (dB)	4.3	3.6	5	5	1	1	1	1	1	2

Note: When connecting the SFP-LHX, ZX, EZX, or EZX-120, we recommened using an attenuator to prevent the transceiver from being damaged by excessive optical power.

		WDM Gigabit Ethernet SFP							
		SFP-10A	SFP-10B	SFP-20A	SFP-20B	SFP-40A	SFP-40B		
Transceiver Type		Single	-Mode	Single	Single-Mode		-Mode		
Fiber Cab	le Type	G.6	52	G.6	652	G.6	552		
Typical D	istance	10	km	20	km	40	km		
	Typical (nm)	TX 1310, RX 1550	TX 1550, RX 1310	TX 1310, RX 1550	TX 1550, RX 1310	TX 1310, RX 1550	TX 1550, RX 1310		
Wave- length	TX Range (nm)	1270 to 1355	1530 to 1570	1270 to 1355	1530 to 1570	1290 to 1330	1530 to 1570		
lengin	RX Range (nm)	1480 to 1580	1260 to 1360	1480 to 1580	1260 to 1360	1480 to 1580	1260 to 1360		
	TX Range (dBm)	-3 to -9		-2 to -8		+2 to -3			
Optical	RX Range (dBm)			-2 to -23		-1 to -23			
Power	Link Budget (dB)	12		15		20			
	Dispersion Penalty (dB)		3		1				

Note: WDM-type SFP modules must be used in pairs (e.g., SFP-1G10ALC and SFP-1G10BLC)
Note: When connecting the SFP-40A and 40B, we recommend using an attenuator to prevent damage caused by excessive optical power.

Typical Distance: To reach the typical distance of specified fiber transceiver, please refer to formula: Link budget(dB) > dispersion penalty(dB) + total link loss(dB).

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Power Requirements

Power Consumption: Max. 1 W

Environmental Limits

Operating Temperature:

Standard Models: 0 to 60°C (32 to 140°F)
Wide Temp. Models: -40 to 85°C (-40 to 185°F)
Storage Temperature: -40 to 85°C (-40 to 185°F)
Ambient Relative Humidity: 5 to 95% (non-condensing)

Standards and Certifications

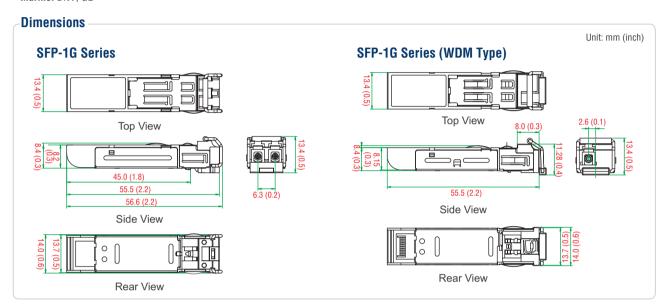
Safety: CE, FCC, TÜV (EN 60825), UL 60950-1

Marine: DNV, GL

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty



: Ordering Information

	Gigabit Ethernet SFI	P Models	WDM Gigabit Ether	net SFP Models			
Standard Temperature Models (0 to 60°C)	Wide Temperature Models (-40 to 85°C)	Transeiver Type	Typical Distance	Standard Temperature (0 to 60°C)	Wide Temperature (-40 to 85°C)	Transeiver Type	Typical Distance
SFP-1GSXLC	SFP-1GSXLC-T*	Multi-Mode	300/550 m	SFP-1G10ALC	SFP-1G10ALC-T	Single-Mode	10 km
SFP-1GLSXLC	SFP-1GLSXLC-T	Multi-Mode	1/2 km	SFP-1G10BLC	SFP-1G10BLC-T	Single-Mode	10 km
SFP-1GLXLC	SFP-1GLXLC-T	Single-Mode	10 km	SFP-1G20ALC	SFP-1G20ALC-T	Single-Mode	20 km
SFP-1GLHLC	SFP-1GLHLC-T	Single-Mode	30 km	SFP-1G20BLC	SFP-1G20BLC-T	Single-Mode	20 km
SFP-1GLHXLC	SFP-1GLHXLC-T	Single-Mode	40 km	SFP-1G40ALC	SFP-1G40ALC-T	Single-Mode	40 km
SFP-1GZXLC	SFP-1GZXLC-T	Single-Mode	80 km	SFP-1G40BLC	SFP-1G40BLC-T	Single-Mode	40 km
SFP-1GEZXLC	-	Single-Mode	110 km	_	-	-	_
SFP-1GEZXLC-120	-	Single-Mode	120 km	-	-	-	-

^{*}SFP-1GSXLC-T: -20 to 75°C operating temperature

Package Checklist -

- SFP-1G module
- · Warranty card

SFP-1FE Series

1-port Fast Ethernet SFP modules



- > Digital Diagnostic Monitor Function
- > IEEE 802.3u compliant
- > Differential PECL inputs and outputs
- > TTL signal detect indicator
- > Hot pluggable LC duplex connector
- > Class 1 laser product; complies with EN 60825-1











: Specifications

Interface

Ethernet Ports: 1

Connectors: Duplex LC Connector

Optical Fiber

		Fast Ethernet SFP					
		SFI	P-M	SFP-S	SFP-L		
Transceive	er Type	Multi-	Mode	Single-Mode			
Fiber Cable Type		OM1/OM2	62.5/125, 50/125 μm	G.652	G.652		
		OWI I/OWIZ	800 MHz*km	0.002	0.052		
Typical Dis	stance	2 km	4 km	40 km	80 km		
	Typical (nm)	1310		1310	1550		
Wave- length	TX Range (nm)	1280 to 1340		1280 to 1340	1530 to 1570		
	RX Range (nm)	1100 to 1650		1100 to 1600	1100 to 1600		
	TX Range (dBm)	-8 to -18		0 to -5	0 to -5		
	RX Range (dBm)	-3 to -32		-3 to -34	-3 to -34		
Optical Power	Link Budget (dB)	14		29	29		
	Dispersion Penalty (dB)	2	3	1	1		

Note: When connecting the SFP-S or L, we recommend using an attenuator to prevent damage caused by excessive optical power.

Power Requirements

Power Consumption: Max. 1 W **Environmental Limits**

Constraint State of State of

Operating Temperature: -40 to 85°C (-40 to 185°F) Storage Temperature: -40 to 85°C (-40 to 185°F) Ambient Relative Humidity: 5 to 95% (non-condensing)

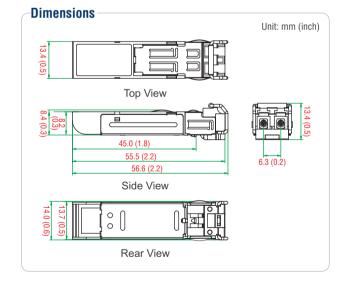
Standards and Certifications

Safety: CE, FCC, TÜV, UL 60950-1

Marine: DNV, GL Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty



Available Models	Port Interface							
Wide Temperature	100BaseFX, Multi-Mode,	100BaseFX, Multi-Mode, 100BaseFX, Single-Mode, 100BaseFX, Single-Mode,						
(-40 to 85°C)	LC Connector, 4 km	LC Connector, 40 km	LC Connector, 80 km					
SFP-1FEMLC-T	1	-	-					
SFP-1FESLC-T	-	1	-					
SFP-1FELLC-T	-	_	1					

Package Checklist

- SFP-1FE module
- Warranty card