# IKS-6728A Series

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



#### **Features and Benefits**

- 8 built-in PoE+ ports compliant with IEEE 802.3af/at (IKS-6728A-8PoE)
- Up to 36 W output per PoE+ port (IKS-6728A-8PoE)
- Turbo Ring and Turbo Chain (recovery time < 20 ms @ 250 switches)1, and STP/RSTP/MSTP for network redundancy
- 1 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

#### **Certifications**









#### Introduction

The IKS-6728A Series is designed to meet the demands of mission-critical applications for business and industry. The IKS-6728A and IKS-6728A-8PoE come 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 auto-checking, PoE power scheduling, PoE diagnostic, IGMP, VLAN, QoS, RMON, bandwidth management, and port mirroring. The IKS-6728A-8PoE is designed especially for harsh outdoor applications with 3kV surge protection to ensure the uninterrupted reliability of PoE systems.

#### **Additional 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
- DHCP Option 82 for IP address assignment with different policies
- Supports EtherNet/IP, PROFINET, and Modbus TCP protocols for device management and monitoring
- Turbo Ring and Turbo Chain (recovery time < 20 ms @ 250</li> switches), and STP/RSTP/MSTP for network redundancy
- · IGMP snooping and GMRP for filtering multicast traffic
- Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
- 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 proactive and efficient network monitoring
- · 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 and 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

## **Specifications**

Input/Output Interface

Alarm Contact Channels

1 relay output with current carrying capacity of 1 A @ 24 VDC

If the port link speed is 1 Gigabit or higher, the recovery time is < 50 ms.



#### **Ethernet Interface**

10/100BaseT(X) Ports (RJ45 connector)	8
Combo Ports (10/100/1000BaseT(X) or 100/ 1000BaseSFP)	4
Module	2 modular slots for any 8-port or 6-port Interface Modules with 10/100BaseT(X), 100BaseFX (SC/ST connector), 100Base PoE/PoE+, or 100Base SFP <sup>2</sup>
Standards	IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1p for Class of Service IEEE 802.1Q for VLAN Tagging IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1X for authentication IEEE 802.3 for 10BaseT IEEE 802.3ab for 100BaseT(X) IEEE 802.3ad for Port Trunk with LACP IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3x for flow control IEEE 802.3z for 1000BaseSX/LX/LHX/ZX

## **Ethernet Software Features**

Management	Back Pressure Flow Control BOOTP DDM DHCP Option 66/67/82 DHCP Server/Client Flow control IPv4/IPv6 LLDP Port Mirror RARP RMON SCP SMTP SNMP Inform SNMPv1/v2c/v3 Syslog Telnet TFTP
Filter	802.1Q BPDU Filter BPDU Guard GMRP GVRP IGMP v1/v2/v3
Redundancy Protocols	Link Aggregation MRP MSTP RSTP STP Turbo Chain Turbo Ring v1/v2 V-ON
Security	Access control list Broadcast storm protection HTTPS/SSL MAB authentication NTP authentication Port Lock RADIUS SSH TACACS+
Time Management	NTP Server/Client

<sup>2.</sup> See the IM-6700A datasheet for Fast Ethernet module product information.



Industrial Protocols  EtherNet/IP Modbus TCP PROFINET  MIB  MIB  Ethernet-like MIB MIB-II PERIODE MIB O-BRIDGE MIB O-BRIDG		
MIB Britance MIB MIB-III PROFINET  Switch Properties  Switch Properties  Switch Properties  SWINDSE MIB PRINDSE MI		SNTP
MB-II   P-BRIDGE MIB	Industrial Protocols	Modbus TCP
GMP Groups  Jumbo Frame Size  9.6 KB  MAC Table Size  16 K  Max. No. of VLANs  54  Packet Buffer Size  12 Mbits  Priority Queues  4  VLAN ID Range  VID 1 to 4094  USB Interface  Storage Port  USB Type A  Serial Interface  Console Port  USB-serial console (Type B connector)  Power Parameters  Input Voltage  IKS-6728A-4GTXSFP-24-47: 24 VDC IKS-6728A-4GTXSFP-24-47: 14 WDC IKS-6728A-4GTXSFP-48-17: 11 VDC (redundant dual inputs) IKS-6728A-4GTXSFP-48-17: 11 VDC (redundant dual inputs) IKS-6728A-4GTXSFP-48-17: 11 VDC (redundant dual inputs) IKS-6728A-8POE-4GTXSFP-HV-HV-T: 110/220 VAC IKS-6728A-4GTXSFP-HV-HV-T: 110/220 VAC IKS-6728A-4GTXSFP-HV-HV-T: 110/20 VAC IKS-6728A-4GTXSFP-H	MIB	MIB-II P-BRIDGE MIB Q-BRIDGE MIB RMON MIB Groups 1, 2, 3, 9
Jumbo Frame Size 9.8 KB  MAC Table Size 16 K  Max. No. of VLANs 64  Packet Buffer Size 12 Mbits 9  Priority Queues 4  VLAN ID Range VID 1 to 4094  USB Interface 5  Storage Port USB Type A  Serial Interface 7  Console Port USB-serial console (Type B connector) 9  Power Parameters 19  INS-6728A-4GTXSFP-24-24-T: 24 VDC (redundant dual inputs) 18  INS-6728A-4GTXSFP-24-24-T: 24 VDC (redundant dual inputs) 18  INS-6728A-4GTXSFP-18-18 ND VDC (redundant dual inputs) 18  INS-6728A-9DC-4GTXSFP-18-1-18 ND VDC (redundant dual inputs) 18  INS-6728A-8DC-4GTXSFP-18-1-18 ND VDC (redundant dual inputs) 18  INS-6728A-8DC-4GTXSFP-18-1-18 ND VDC (redundant dual inputs) 18  INS-6728A-4GTXSFP-18-1-18 ND VDC (redundant dual inputs) 18  INS-6728A-4GTXSFP-18-18-18 ND VDC (redundant dual	Switch Properties	
MAC Table Size  16 K  Max. No. of VLANs  64  Packet Buffer Size  12 Mbits  Priority Queues  4  VLAN ID Range  VID 1 to 4094  USB Interface  Storage Port  USB Type A  Serial Interface  Console Port  USB-serial console (Type B connector)  Power Parameters  Input Voltage  INS-6728A-4GTXSFP-24-T: 24 VDC INS-6728A-4GTXSFP-48-T: 48 VDC INS-6728A-4GTXSFP-48-T: 48 VDC INS-6728A-4GTXSFP-48-T: 48 VDC INS-6728A-4GTXSFP-48-T: 48 VDC INS-6728A-4GTXSFP-48-T: 110/220 VAC INS-6728A-4GTXSFP-48-T: 110/220 VAC INS-6728A-4GTXSFP-48-T: 110/220 VAC INS-6728A-4GTXSFP-48-T: 110/220 VAC INS-6728A-4GTXSFP-48-T: 18 to 524 VAC INS-6728A-4GTXSFP-48-T:	IGMP Groups	2048
Max. No. of VLANs  Packet Buffer Size  12 Mbits  Priority Queues  4  VLAN ID Range  VID 1 to 4094  USB Interface  Storage Port  USB Type A  Serial Interface  Console Port  USB-serial console (Type B connector)  Power Parameters  Input Voltage  IKS-6728A-4GTXSFP-24-T: 24 VDC IKS-6728A-4GTXSFP-24-T: 24 VDC IKS-6728A-4GTXSFP-44-T: 48 VDC IKS-6728A-4GTXSFP-44-T: 110/220 VAC IKS-6728A-4GTXSFP-44-T: 110/220 VAC IKS-6728A-4GTXSFP-HV-T: 110/220 VAC IKS-6728A-4GTXSFP-HV-T: 110/220 VAC IKS-6728A-4GTXSFP-HV-T: 110/220 VAC IKS-6728A-4GTXSFP-HV-T: 10/220 VAC IKS-6728A-4GTXSFP-HV-T: 10/20 VAC INS-6728A-4GTXSFP-HV-T: 10/20 VAC Input Current  1.1/0.6 A @ 24/48 VDC 0.46/0.31 A @ 110/20 VAC  Power Consumption (Max.)  28.28/31.92 W @ 110/20 VAC	Jumbo Frame Size	9.6 KB
Packet Buffer Size  12 Mbits  Priority Queues  4  VLAN ID Range  VID 1 to 4094  USB Interface  Storage Port  USB Type A  Serial Interface  Console Port  USB-serial console (Type B connector)  Power Parameters  Input Voltage  IKS-6728A-4GTXSFP-24-7: 24 VDC IKS-6728A-4GTXSFP-24-7: 24 VDC IKS-6728A-4GTXSFP-24-7: 48 VDC IKS-6728A-4GTXSFP-48-7: 48 VDC IKS-6728A-4GTXSFP-48-7: 48 VDC IKS-6728A-4GTXSFP-48-7: 48 VDC IKS-6728A-4GTXSFP-48-8-8-7: 48 VDC IKS-6728A-4BPC-4GTXSFP-48-8-8-7: 48 VDC IKS-6728A-8PDC-4GTXSFP-48-8-7: 48 VDC IKS-6728A-8PDC-4GTXSFP-48-8-7: 48 VDC IKS-6728A-8PDC-4GTXSFP-48-8-7: 10 VDC IKS-6728A-8PDC-4GTXSFP-48-8-7: 10 VDC IKS-6728A-8PDC-4GTXSFP-48-8-7: 10 VDC IKS-6728A-8PDC-4GTXSFP-48-8-7: 10 VDC IKS-6728A-4BPC-4GTXSFP-48-8-7: 10 VDC IKS-6728A-4GTXSFP-48-7: 10 VDC IKS-6728A-4GTXSFP-48-7: 10 VDC IKS-6728A-4GTXSFP-48-7: 36 to 72 VDC IKS-6728A-8PDC-4GTXSFP-48-8-7: 36 to 72 VDC IKS-6728A-8PDC-4GTXSFP-HV-THV-T: 85 to 264 VAC INDET These are the input current ratings for the device with the maximum number of modules installed.  Power Consumption (Max.)  2 8.48/83 W @ 24/48 VDC 2 9.28/83 JS W @ 110/220 VAC	MAC Table Size	16 K
Priority Queues	Max. No. of VLANs	64
VLAN ID Range  VID 1 to 4094  USB Interface  Storage Port  USB Type A  Serial Interface  Console Port  USB-serial console (Type B connector)  Power Parameters  Input Voltage  IKS-6728A-4GTXSFP-24-4T: 24 VDC IKS-6728A-4GTXSFP-24-4T: 24 VDC (redundant dual inputs) IKS-6728A-4GTXSFP-48-81-81 49 VDC IKS-6728A-4GTXSFP-48-81-81 49 VDC IKS-6728A-4GTXSFP-48-81-81 40 VDC IKS-6728A-4GTXSFP-48-81-81 40 VDC IKS-6728A-4GTXSFP-48-11 10/220 VAC IKS-6728A-4POE-4GTXSFP-48-11 80 VDC IKS-6728A-8POE-4GTXSFP-48-11 10/220 VAC IKS-6728A-8POE-4GTXSFP-48-11 10/220 VAC IKS-6728A-8POE-4GTXSFP-48-11 10/220 VAC IKS-6728A-4POE-4GTXSFP-48-11 10/220 VAC IKS-6728A-4GTXSFP-48-11 10/220 VAC IKS-6728A-4GTXSFP-48-11 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Packet Buffer Size	12 Mbits
USB Type A	Priority Queues	4
Storage Port   USB Type A	VLAN ID Range	VID 1 to 4094
Serial Interface  Console Port  USB-serial console (Type B connector)  Power Parameters  Input Voltage  IKS-6728A-4GTXSFP-24-T: 24 VDC IKS-6728A-4GTXSFP-24-BT: 24 VDC (redundant dual inputs) IKS-6728A-4GTXSFP-48-BT: 48 VDC (redundant dual inputs) IKS-6728A-4GTXSFP-48-BT: 110/220 VAC (redundant dual inputs) IKS-6728A-4GTXSFP-HV-HV-T: 110/220 VAC (redundant dual inputs) IKS-6728A-4GTXSFP-HV-HV-T: 110/220 VAC (redundant dual inputs) IKS-6728A-9PoE-4GTXSFP-HV-HV-T: 110/220 VAC (redundant dual inputs) IKS-6728A-4GTXSFP-HV-HV-T: 85 to 264 VAC IKS-6728A-4GTXSFP-HV-HV-T: 85 to 264 VAC IKS-6728A-4GTXSFP-HV-HV-T: 85 to 264 VAC IKS-6728A-4GTXSFP-4B-4B-T: 36 to 72 VDC IKS-6728A-4GTXSFP-4B-4B-T: 36 to 72 VDC IKS-6728A-4GTXSFP-4B-4B-T: 36 to 72 VDC IKS-6728A-9PoE-4GTXSFP-HV-HV-T: 85 to 264 VAC IKS-6728A-9PoE-4GTXSPP-HV-HV-T: 85 to 2	USB Interface	
USB-serial console (Type B connector)	Storage Port	USB Type A
IKS-6728A-4GTXSFP-24-T: 24 VDC	Serial Interface	
Input Voltage	Console Port	USB-serial console (Type B connector)
IKS-6728A-4GTXSFP-24-24-T: 24 VDC (redundant dual inputs)   IKS-6728A-4GTXSFP-48-T: 48 VDC (redundant dual inputs)   IKS-6728A-4GTXSFP-48-T: 48 VDC (redundant dual inputs)   IKS-6728A-4GTXSFP-HV-T: 110/220 VAC   IKS-6728A-4GTXSFP-HV-T: 110/220 VAC (redundant dual inputs)   IKS-6728A-4GTXSFP-HV-T: 110/220 VAC (redundant dual inputs)   IKS-6728A-8PoE-4GTXSFP-HV-T: 48 VDC (redundant dual inputs)   IKS-6728A-8PoE-4GTXSFP-HV-T: 110/220 VAC (redundant dual inputs)   IKS-6728A-8PoE-4GTXSFP-HV-T: 110/220 VAC (redundant dual inputs)   IKS-6728A-8PoE-4GTXSFP-HV-T: 110/220 VAC (redundant dual inputs)   IKS-6728A-8POE-4GTXSFP-HV-T: 85 to 264 VAC   IKS-6728A-4GTXSFP-HV-HV-T: 85 to 264 VAC   IKS-6728A-4GTXSFP-HV-HV-T: 85 to 264 VAC   IKS-6728A-4GTXSFP-42-T: 18 to 36 VDC   IKS-6728A-4GTXSFP-42-T: 18 to 36 VDC   IKS-6728A-4GTXSFP-48-T: 36 to 72 VDC   IKS-6728A-4GTXSFP-48-T: 36 to 72 VDC   IKS-6728A-9DE-4GTXSFP-48-T: 36 to 72 VDC   IKS-6728A-8POE-4GTXSFP-48-T: 36 to 72 VDC   IKS-6728A-8POE-4GTXSFP-48-T: 36 to 72 VDC   IKS-6728A-8POE-4GTXSFP-48-T: 36 to 72 VDC   IKS-6728A-8POE-4GTXSFP-HV-T: 85 to 264 VAC   IKS-6728A-8POE-4GTXSFP-HV-TI-85 to 264 VAC   IKS-6728A-8POE-4GTXSFP-RAS-RAS-TI-86 to 72 VDE   IKS-6728A-8POE-4GTXSFP-RAS-RAS-TI-	Power Parameters	
IKS-6728A-4GTXSFP-HV-HV-T: 85 to 264 VAC	Input Voltage	IKS-6728A-4GTXSFP-24-24-T: 24 VDC (redundant dual inputs) IKS-6728A-4GTXSFP-48-T: 48 VDC IKS-6728A-4GTXSFP-48-48-T: 48 VDC (redundant dual inputs) IKS-6728A-4GTXSFP-HV-T: 110/220 VAC IKS-6728A-4GTXSFP-HV-HV-T: 110/220 VAC (redundant dual inputs) IKS-6728A-8PoE-4GTXSFP-48-T: 48 VDC IKS-6728A-8PoE-4GTXSFP-48-48-T: 48 VDC (redundant dual inputs) IKS-6728A-8PoE-4GTXSFP-HV-T: 110/220 VAC
0.46/0.31 A @ 110/220 VAC Note: These are the input current ratings for the device with the maximum number of modules installed.  Power Consumption (Max.)  26.4/28.8 W @ 24/48 VDC 29.28/31.92 W @ 110/220 VAC	Operating Voltage	IKS-6728A-4GTXSFP-HV-HV-T: 85 to 264 VAC IKS-6728A-4GTXSFP-24-T: 18 to 36 VDC IKS-6728A-4GTXSFP-24-24-T: 18 to 36 VDC IKS-6728A-4GTXSFP-48-T: 36 to 72 VDC IKS-6728A-4GTXSFP-48-48-T: 36 to 72 VDC IKS-6728A-8P0E-4GTXSFP-48-T: 36 to 72 VDC IKS-6728A-8P0E-4GTXSFP-48-48-T: 36 to 72 VDC IKS-6728A-8P0E-4GTXSFP-HV-T: 85 to 264 VAC
29.28/31.92 W @ 110/220 VAC	Input Current	0.46/0.31 A @ 110/220 VAC Note: These are the input current ratings for the device with the maximum number of
number of modules installed.	Power Consumption (Max.)	29.28/31.92 W @ 110/220 VAC Note: These are the power consumption ratings for the device with the maximum



Total PoE Power Budget	IKS-6728A-PoE series: Maximum 720 W @ 48 VDC
Overload Current Protection	Supported
Reverse Polarity Protection	Supported
Physical Characteristics	
IP Rating	IP30
Dimensions	440 x 44 x 280 mm (17.32 x 1.37 x 11.02 in)
Weight	4100 g (9.05 lb)
Installation	Rack mounting
Environmental Limits	
Operating Temperature	-40 to 75°C (-40 to 167°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Standards and Certifications	
Freefall	IEC 60068-2-32
EMC	EN 55032/24
ЕМІ	CISPR 32, FCC Part 15B Class A
EMS	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: 10 V IEC 61000-4-8 PFMF
Railway	EN 50121-4
Maritime	IKS-6728A Series non-PoE models: ABS, CCS, DNV, LR, NK
Safety	EN 60950-1 UL 60950-1
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6
MTBF	
Time	IKS-6728A-4GTXSFP-24-24-T: 324,676 hrs IKS-6728A-4GTXSFP-24-T: 344,541 hrs IKS-6728A-4GTXSFP-48-48-T: 325,077 hrs IKS-6728A-4GTXSFP-48-T: 344,767 hrs IKS-6728A-4GTXSFP-HV-HV-T: 148,687 hrs IKS-6728A-4GTXSFP-HV-T: 211,634 hrs IKS-6728A-8P0E-4GTXSFP-48-48-T: 215,994 hrs IKS-6728A-8P0E-4GTXSFP-48-T: 224,420 hrs IKS-6728A-8P0E-4GTXSFP-HV-HV-T: 120,731 hrs IKS-6728A-8P0E-4GTXSFP-HV-HV-T: 159,173 hrs
Standards	Telcordia (Bellcore), GB
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty

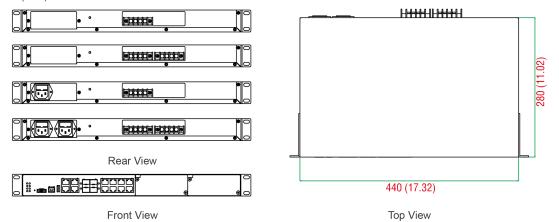


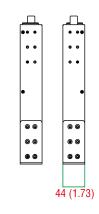
## **Package Contents**

Device	1 x IKS-6728A Series switch
Cable	1 x USB type A male to USB type B male
Installation Kit	2 x rack-mounting ear 8 x cap, plastic, for SFP slot
Power Supply	IKS-6728A-4GTXSFP-HV-T: 1 x power cord, EU type IKS-6728A-4GTXSFP-HV-HV-T: 2 x power cord, EU type IKS-6728A-8PoE-4GTXSFP-HV-T: 1 x power cord, EU type IKS-6728A-8PoE-4GTXSFP-HV-HV-T: 2 x power cord, EU type IKS-6728A-4GTXSFP-HV-T: 1 x power cord, US type IKS-6728A-4GTXSFP-HV-HV-T: 2 x power cord, US type IKS-6728A-8PoE-4GTXSFP-HV-T: 1 x power cord, US type IKS-6728A-8PoE-4GTXSFP-HV-HV-T: 2 x power cord, US type
Documentation	1 x quick installation guide 1 x warranty card
Note	<ol> <li>If you want to turn on PoE, please add a 48 V external power supply.</li> <li>48 V external power supply, SFP modules and/or modules from the IM-6700A Module Series need to be purchased separately for use with this product.</li> </ol>

## **Dimensions**

Unit: mm (inch)





Front View

Side View

## **Ordering Information**

Model Name	Combo Ports (10/100/ 1000BaseT(X) or 100/ 1000BaseSF P)	100BaseSFP Slots	10/ 100BaseT(X) Ports RJ45 Connector	100BaseFX Ports	Operating Temp.	Input Voltage	Redundant Dual Input	PoE Support
IKS-6728A-4GTXSFP- HV-T	4	Up to 20	Up to 24	Up to 12	-40 to 75°C	110/220 VAC power supply	-	-
IKS-6728A-4GTXSFP- HV-HV-T	4	Up to 20	Up to 24	Up to 12	-40 to 75°C	110/220 VAC power supply	✓	-
IKS-6728A-4GTXSFP- 24-T	4	Up to 20	Up to 24	Up to 12	-40 to 75°C	24 VDC power supply	-	-
IKS-6728A-4GTXSFP- 24-24-T	4	Up to 20	Up to 24	Up to 12	-40 to 75°C	24 VDC power supply	✓	-
IKS-6728A-4GTXSFP- 48-T	4	Up to 20	Up to 24	Up to 12	-40 to 75°C	48 VDC power supply	-	-
IKS-6728A-4GTXSFP- 48-48-T	4	Up to 20	Up to 24	Up to 12	-40 to 75°C	48 VDC power supply	✓	-

Model Name	Combo Ports (10/100/ 1000BaseT(X) or 100/ 1000BaseSF P)	100BaseSFP Slots	10/ 100BaseT(X) Ports RJ45 Connector	100BaseFX Ports	Operating Temp.	Input Voltage	Redundant Dual Input	PoE Support
IKS-6728A-8PoE- 4GTXSFP-HV-T	4	Up to 20	Up to 24	Up to 12	-40 to 75°C	110/220 VAC power supply	-	Up to 24 PoE ports
IKS-6728A-8PoE- 4GTXSFP-HV-HV-T	4	Up to 20	Up to 24	Up to 12	-40 to 75°C	110/220 VAC power supply	✓	Up to 24 PoE ports
IKS-6728A-8PoE- 4GTXSFP-48-T	4	Up to 20	Up to 24	Up to 12	-40 to 75°C	48 VDC power supply	-	Up to 24 PoE ports
IKS-6728A-8PoE- 4GTXSFP-48-48-T	4	Up to 20	Up to 24	Up to 12	-40 to 75°C	48 VDC power supply	✓	Up to 24 PoE ports

## **Accessories (sold separately)**

## IM-6700A Module Series

IM-6700A-2MSC4TX	Fast Ethernet module with 2 multi-mode 100BaseFX ports with SC connector, 4 10/100BaseT(X) ports
IM-6700A-2MST4TX	Fast Ethernet module with 2 multi-mode 100BaseFX ports with ST connectors, 4 10/100BaseT(X) ports
IM-6700A-2SSC4TX	Fast Ethernet module with 2 single-mode 100BaseFX ports with SC connector, 4 10/100BaseT(X) ports
IM-6700A-4MSC2TX	Fast Ethernet module with 4 multi-mode 100BaseFX ports with SC connector, 2 10/100BaseT(X) ports
IM-6700A-4MST2TX	Fast Ethernet module with 4 multi-mode 100BaseFX ports with ST connectors, 2 10/100BaseT(X) ports
IM-6700A-4SSC2TX	Fast Ethernet module with 4 single-mode 100BaseFX ports with SC connectors, 2 10/100BaseT(X) ports
IM-6700A-6MSC	Fast Ethernet module with 6 multi-mode 100BaseFX ports with SC connectors
IM-6700A-6MST	Fast Ethernet module with 6 multi-mode 100BaseFX ports with ST connectors
IM-6700A-6SSC	Fast Ethernet module with 6 single-mode 100BaseFX ports with SC connectors
IM-6700A-8PoE	Fast Ethernet PoE+ module with 8 100BaseT(X) PoE/PoE+ ports (for IKS-6728A-8PoE Series only)
IM-6700A-8SFP	Fast Ethernet module with 8 100BaseSFP slots
IM-6700A-8TX	Fast Ethernet module with 8 10/100T(X) ports

## Storage Kits

ABC-02-USB	Configuration backup and restoration tool, firmware upgrade, and log file storage tool for managed
	Ethernet switches and routers, 0 to 60°C operating temperature

#### SED Modulos

SFP Modules	
SFP-1FELLC-T	SFP module with 1 100Base single-mode with LC connector for 80 km transmission, -40 to 85°C operating temperature
SFP-1FEMLC-T	SFP module with 1 100Base multi-mode, LC connector for 2/4 km transmission, -40 to 85°C operating temperature
SFP-1FESLC-T	SFP module with 1 100Base single-mode with LC connector for 40 km transmission, -40 to 85°C operating temperature
SFP-1G10ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G10ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G10BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G10BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1G20ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature



SFP-1G20ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G20BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, 0 to $60^{\circ}$ C operating temperature
SFP-1G20BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1G40ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, 0 to $60^{\circ}$ C operating temperature
SFP-1G40ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G40BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, 0 to $60^{\circ}$ C operating temperature
SFP-1G40BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1GEZXLC	SFP module with 1 1000BaseEZX port with LC connector for 110 km transmission, 0 to $60^{\circ}$ C operating temperature
SFP-1GEZXLC-120	SFP module with 1 1000BaseEZX port with LC connector for 120 km transmission, 0 to $60^{\circ}$ C operating temperature
SFP-1GLHLC	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, 0 to 60°C operating temperature
SFP-1GLHLC-T	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperature
SFP-1GLHXLC	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, 0 to 60°C operating temperature
SFP-1GLHXLC-T	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperature
SFP-1GLSXLC	SFP module with 1 1000BaseLSX port with LC connector for 1km/2km transmission, 0 to 60°C operating temperature
SFP-1GLSXLC-T	SFP module with 1 1000BaseLSX port with LC connector for 1km/2km transmission, -40 to 85°C operating temperature
SFP-1GLXLC	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, 0 to 60°C operating temperature
SFP-1GLXLC-T	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, -40 to 85°C operating temperature
SFP-1GSXLC	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, 0 to 60°C operating temperature
SFP-1GSXLC-T	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, -40 to 85°C operating temperature
SFP-1GZXLC	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, 0 to 60°C operating temperature
SFP-1GZXLC-T	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperature

## **Power Cords**

PWC-C13US-3B-183	Power cord with United States (US) plug, 1.83 m
PWC-C13EU-3B-183	Power cord with Continental Europe (EU) plug, 1.83 m
PWC-C13AU-3B-183	Power cord with Australian (AU) plug, 1.83 m
PWC-C13UK-3B-183	Power cord with United Kingdom (UK) plug, 1.83 m
PWC-C7US-2B-183	Power cord with United States (US) plug, 10A/125V, 1.83 m
PWC-C7AU-2B-183	Power cord with Australian (AU) plug, 2.5A/250V, 1.83 m
PWC-C7EU-2B-183	Power cord with Continental Europe (EU) plug, 2.5A/250V, 1.83 m
PWC-C7UK-2B-183	Power cord with United Kingdom (UK) plug, 2.5A/250V, 1.83 m
PWC-C13CN-3B-183	Power cord with three-prong China (CN) plug, 1.83 m



#### Software

MXview-50	Industrial network management software with a license for 50 nodes (by IP address)
MXview-100	Industrial network management software with a license for 100 nodes (by IP address)
MXview-250	Industrial network management software with a license for 250 nodes (by IP address)
MXview-500	Industrial network management software with a license for 500 nodes (by IP address)
MXview-1000	Industrial network management software with a license for 1000 nodes (by IP address)
MXview-2000	Industrial network management software with a license for 2000 nodes (by IP address)
MXview Upgrade-50	License expansion of MXview industrial network management software by 50 nodes (by IP address)

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