

IKS-6726 Series

24+2G-port Gigabit modular managed Ethernet switch



- > Meets UL 60950-1, NEMA TS2, and DNV/GL certifications
- > Turbo Ring and RSTP/STP for Ethernet Redundancy
- > Isolated redundant power inputs with universal 24/48 VDC or 110/220 VDC/VAC power supply
- > Modular design lets you choose from a variety of media combinations
- > -40 to 75°C operating temperature range



Introduction

The industrial rackmount Ethernet switch IKS-6726 is designed to meet the demands of industrial application networks such as traffic control systems (NEMA TS2) and maritime applications (DNV/GL). The IKS-6726's Gigabit and fast Ethernet backbone, redundant ring, and 24/48 VDC or 110/220 VDC/VAC dual isolated redundant power

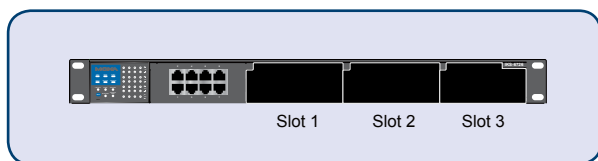
supplies increase the reliability of your communications and save on cabling/wiring costs. The modular design of the IKS-6726 also makes network planning easy, and allows greater flexibility by letting you install up to 2 Gigabit ports and 24 fast Ethernet ports.

Features and Benefits

- Turbo Ring and RSTP/STP (IEEE 802.1w/D)
- IGMP Snooping and GMRP for filtering multicast traffic from industrial Ethernet protocols
- IEEE 802.1Q VLAN and GVRP protocol to ease network planning
- QoS-IEEE 802.1p/1Q and TOS/DiffServ to increase determinism
- 802.3ad, LACP for optimum bandwidth utilization
- IEEE 802.1X, HTTPS, and SSH to enhance network security
- SNMPv1/v2c/v3 for different levels of network management
- RMON for efficient network monitoring and proactive capability
- ABC-01 for system configuration backup
- 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, Windows utility, and ABC-01

Specifications

Modular Rackmount Ethernet Switch System, IKS-6726



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

Protocols: IGMP v1/v2 device, GMRP, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, DHCP Option 82, BootP, TFTP, SNMP, SMTP, RARP, RMON, HTTP, HTTPS, Telnet, SSH, Syslog

MIB: MIB-II, Ethernet-like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9

Flow Control: IEEE 802.3x flow control, back pressure flow control

Switch Properties

Priority Queues: 4

Max. Number of Available VLANs: 64

VLAN ID Range: VID 1 to 4094

IGMP Groups: 256

Technology

Standards: IEEE 802.3 for 10BaseT,
 IEEE 802.3u for 100BaseT(X) and 100BaseFX,
 IEEE 802.3ab for 1000BaseT(X),
 IEEE 802.3z for 1000BaseSX/LX/LHX/ZX,
 IEEE 802.3x for Flow Control,
 IEEE 802.1D for Spanning Tree Protocol,
 IEEE 802.1w for Rapid STP,

Interface

Fast Ethernet: Slot 1 and 2 for any combination of 8-, 7-, or 6-port PM-7200 fast Ethernet modules with 10/100BaseT(X) or 100BaseFX (SC/ST connector)

Gigabit Ethernet: Slot 3 for 2-port PM-7200 Gigabit Ethernet combo module with 10/100/1000BaseT(X) or 1000BaseSFP slots

Console: RS-232 (RJ45)

System LED Indicators: STAT, PWR1, PWR2, FAULT, MASTER, COUPLER

Module LED Indicators: LNK/ACT, FDX/HDX, RING PORT, COUPLER PORT, SPEED

Alarm Contact: One relay output with current carrying capacity of 3A@30 VDC or 3A@240 VAC

Power Requirements

Input Voltage: 24 VDC (18 to 36 V), or 48 VDC (36 to 72 V), or 110/220 VDC/VAC (88 to 300 VDC and 85 to 264 VAC)

Connection: 10-pin terminal block

Overload Current Protection: Present

Reverse Polarity Protection: Present

Physical Characteristics

Casing: IP30 protection

Dimensions (W x H x D): 440 x 44 x 325 mm (17.32 x 1.73 x 12.80 in.)

Installation: 19" rack mounting

Environmental Limits

Operating Temperature: -40 to 75°C (-40 to 167°F), cold start of min. 100 VAC at -40°C

Storage Temperature: -40 to 85°C (-40 to 185°F)

Ambient Relative Humidity: 5 to 95% (non-condensing)

Regulatory Approvals

Safety: EN60950-1 (Pending)

Maritime: DNV (Pending), GL (Pending)

Road Traffic: NEMA TS2

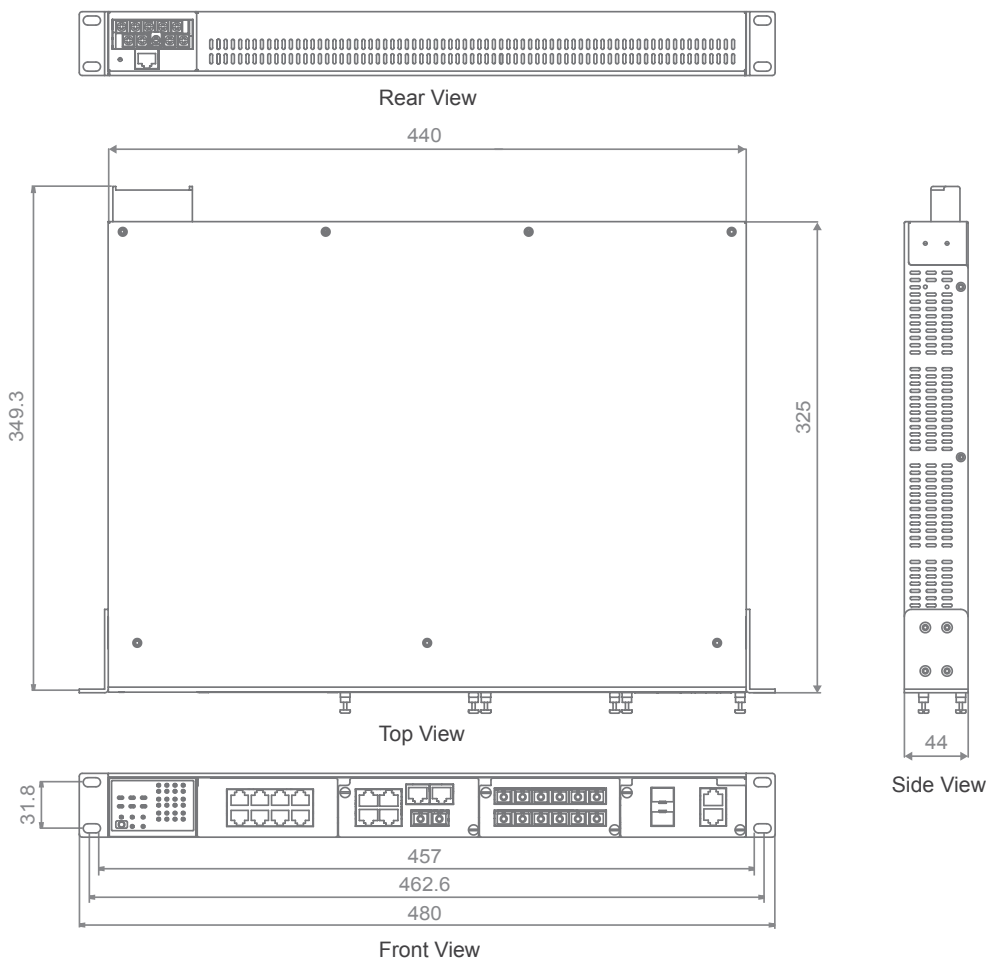
EMI: FCC Part 15, CISPR (EN55022) class A

**Please check Moxa's website for the most up-to-date certification status*

Warranty

5 years (see www.moxa.com/warranty for details)

Dimensions (unit = mm)



Ordering Information

Step 1: Select Ethernet switch system

Step 2: Select interface modules

IKS-6726 with power supply



PM-7200 series
(Gigabit or fast Ethernet)

*The IKS-6726 Ethernet switch system is delivered without interface module. Please refer to page 4-23 to choose PM-7200 interface modules.

Modular Rackmount Ethernet Switch System, IKS-6726

Modular managed rackmount Ethernet switch system with 8 10/100BaseT(X) ports, 2 slots for fast Ethernet modules, and 1 slot for Gigabit Ethernet modules, for a total of up to 24+2G ports, -40 to 75°C

Product Model	Power Supply					
	Isolated Power Supply 1			Isolated Power Supply 2		
	24 VDC (18 to 36 V)	48 VDC (36 to 72 V)	HV: 88 to 300 VDC and 85 to 264 VAC	24 VDC (18 to 36 V)	48 VDC (36 to 72 V)	HV: 88 to 300 VDC and 85 to 264 VAC
IKS-6726-F-24	1					
IKS-6726-F-24-24	1			1		
IKS-6726-F-24-48	1				1	
IKS-6726-F-24-HV	1					1
IKS-6726-F-48		1				
IKS-6726-F-48-48		1			1	
IKS-6726-F-48-HV		1				1
IKS-6726-F-HV			1			
IKS-6726-F-HV-HV			1			1

* The IKS-6726 Ethernet switch systems provide 1 slot for Gigabit Ethernet interface modules and 2 slots for fast Ethernet interface modules. Please refer to page 4-23 to select the PM-7200 Gigabit Ethernet and fast Ethernet interface modules.

Gigabit/Fast Ethernet Modules for the IKS-6726

	Interface Module											
	PM-7200-2GTXSFP	PM-7200-8TX	PM-7200-2MSC4TX	PM-7200-2MST4TX	PM-7200-2SSC4TX	PM-7200-4MSC2TX	PM-7200-4MST2TX	PM-7200-4SSC2TX	PM-7200-6MSC	PM-7200-6MST	PM-7200-6SSC	PM-7200-1LSC6TX
Slot 1		√	√	√	√	√	√	√	√	√	√	√
Slot 2		√	√	√	√	√	√	√	√	√	√	√
Slot 3	√											

Optional Accessories

- **ABC-01:** Industrial RS-232, RJ45-based, automatic backup configurator
- **EDS-SNMP OPC Server Pro:** CD with EDS-SNMP OPC server software and manual