

ESMGS24-P4 Series

Managed Industrial Ethernet Switch with PoE+ 24 Ports: 24 Copper & 4 Shared SFP Ports







Product Description

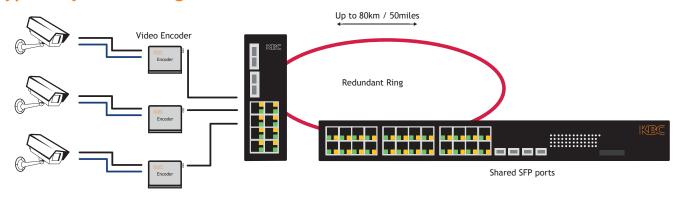
The KBC ESMGS24-P4 series is a high performance 24 port, industrial, managed Gigabit switch with 24 x 802.3at PoE+ ports and 4 shared SFP ports. It is designed for large scale IP surveillance applications and networks. Each PoE port (up to 30W) satisfies the high power consumption requirement of a PoE IP camera. The switch is also ideal for applications requiring Power Sourcing Equipment (PSE) functionality such as IP switches, routers and hubs, CCTV DVR, home networking and industrial Ethernet. Automatic identification of the Powered Device (PD) maintains a reliable power supply to external devices. The KBC ESMGS24-P4 series supports rich network functionalities such as port mirroring, VLAN, trunking, RSTP, rate limiting, port security, SNMP etc.

The ESMGS24-P4 Ethernet switch is available as a 1U rack unit and as a standard, commercial grade or extended temperature unit.

Product Features

- 720W PoE budget
- 4k VLANS and 8k MAC addresses
- Configurable through web-based or SNMP or CLI
- Virtual LAN support (Port based VLAN and IEEE 802.1Q)
- VLAN Q-in-Q support (For VLAN stacking)
- Rapid Spanning Tree Protocol (IEEE 802.1W) for avoidance of network ring and redundancy (recovery time < 2s)
- Port trunking (Link aggregation) for high-speed backbone & redundancy (recovery time <10 ms)
- LACP support (Dynamic port trunking or aggregate)
- QoS (Quality of Service) support (802.1p, DiffServ, TOS,
- Port-based, MAC-based)
- Rate limiting (Broadcast storm control)
- Port mirroring
- IGMP Snooping
- Port security
- Symmetric pause & backpressure flow control

Typical System Configuration



Specifications

Standards

IEEE Standards

IEEE802.3 10Base-TX IEEE802.3u 100Base-TX IEEE802.3u 1000Base-TX IEEE 802.1x IEEE 802.1w RSTP

IEEE 802.1D STP IEEE 802.1p CoS priority IEEE 802.1Q VLAN IEEE 802.1ab 2005 LLDP Protocol

IEEE 802.3 2005 10/100/1000M Ethernet

10/100/1000Base-T(X) SFP

Port configuration

Port speed

Switch Performance

Architecture Fabric Throughput Mac address table Share data buffer Jumbo frame size Flow control

Layer 2 Functions

Management interface

Port configuration

Port mirroring

VLAN

Link aggregation

RJ45 (24) SFP (4); 1000Base-SX/LX/BX

Auto MDI / MDI-X Auto-negotiate

Store-and-forward 46Gps non-blocking 35.7Mbps @64Bytes

500kbytes 10kbytes

IEEE 802.3X Pause frame for full-duplex back pressure for

half-duplex

Console, web browser, SNMP v1, v2c & v3 Port enable/disable: Auto-negotiation: 10/100/1000Mbps full and

half duplex mode selection; Flow Control enable/disable; Bandwidth control on each port

Tx/Rx/both: 1 to 1 monitoring IEEE 802.1g tagged-based VLAN; port-based VLAN;

O-in-O tunneling IEEE902.3as LACP/static trunk: Supports 24 groups of 16-port

Layer 2 Functions (cont.)

Quality of Service (QoS)

Multicasting / IGMP

SNMP MIBs

802.1p, DiffServ, TOS, port-based; Mac-based IGMP (v1/v2) snooping

RFC 791 IP; RFC 1122 Internet Host Requirements; RFC 792 ICMP; RFC 2131 DHCP; RFC 826 ARP; RFC 1700 Assigned Numbers; RFC 2822 Internet Message Format; RFC 793 TCP; RFC 768UDP; RFC 2236 IGMP v2; RFC 1157 SNMP; RFC 1349 Type of Service in the IP Suite; RFC 1945 HTTP/1.0; RFC 932 Subnetwork addressing scheme; RFC 1350 TFTP; RFC 1510 Network

Authentication; RFC 2068 HTTP

Power

100 ~ 240Vac, 50/60Hz Power Input

Environmental

Operating temperature

-10° ~ +55°C / 14° ~ +131°F Standard temp unit: Extended temp unit:

Storage temperature Operating humidity

Mean Time Between Failure (MTBF)

Mechanical

Dimensions Ixwxd

10/100/1000 Electrical

Fiber Power

LED indicators & Switch

Power

10/100/1000BASE-TX/PoE ports 10/100/1000BASE-T/SFP ports

-30° ~ +70°C / -22° ~ +158°F

-30° ~ +70°C / -22° ~ +158°F 0 to 95% non-condensing >100 000 hours

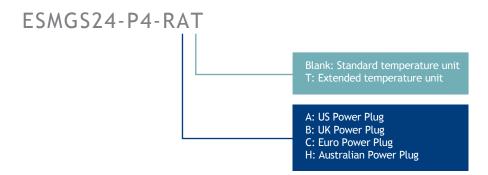
482.6 x 300 x 44mm / 19 x 11.81 x 1.73" (1U rack)

SFP (Small Form-factor Pluggable) IEC⁽¹⁾

on / red 10/100 LNK/ACT - green

100 LNK/ACT - green, 1000LNK/ACT - green

Part Number Configurator



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^{1.} Please select the power plug from US Standard, Euro 2 Circular, UK 3 Pin square or Australian when placing order