



Product Description

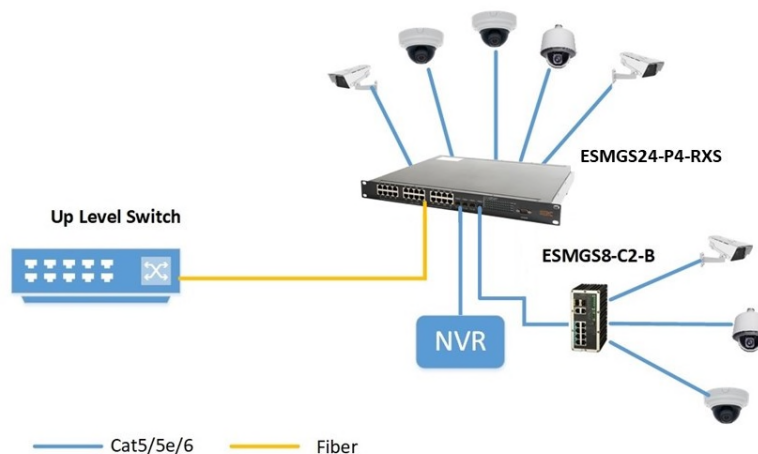
The KBC ESMGS24-P4-RXS Series is a high performance, 24 port, industrial managed Gigabit switch with 24 x 802.3at PoE+ ports and 4 shared SFP ports. It is designed for large scale IP surveillance applications and networks. Each PoE port (up to 30W) satisfies the high power consumption requirement of a PoE IP camera. PoE budget can be customized. 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-RXS Series supports rich network functionalities such as port mirroring, VLAN, trunking, RSTP, rate limiting, port security, SNMP and other network functions. The KBC ESMGS24-P4-RXS Ethernet switch is available as a 1U rack unit.



Product Features

- 360W 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 Protocol
----------------	---

Ports

10/100/1000Base-T(X) SFP Port configuration Port speed	RJ45 (24) SFP (4); 1000Base-SX/LX/BX Auto MDI / MDI-X Auto-negotiate
---	---

Switch Performance

Architecture Fabric Throughput Mac address table Share data buffer Jumbo frame size Flow control	Store-and-forward 46Gps non-blocking 35.7Mbps @64Bytes 8k 500kbytes 10kbytes IEEE 802.3X Pause frame for full-duplex back pressure for half-duplex
--	--

Layer 2 Functions

Management interface Port configuration Port mirroring VLAN Link aggregation	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; Q-in-Q tunneling IEEE902.3as LACP/static trunk: Supports 24 groups of 16-port trunks
--	---

Layer 2 Functions (cont.)

Quality of Service (QoS)	802.1p, DiffServ, TOS, port-based; Mac-based
Multicasting / IGMP	IGMP (v1/v2) snooping
SNMP MIBs	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

Power Input	100 ~ 240Vac, 50/60Hz
-------------	-----------------------

Environmental

Operating temperature	Standard temp unit: -10° ~ +55°C / 14° ~ +131°F Extended temp unit: -30° ~ +70°C / -22° ~ +158°F
Storage temperature	-30° ~ +70°C / -22° ~ +158°F
Operating humidity	0 to 95% non-condensing
Mean Time Between Failure (MTBF)	>100 000 hours

Mechanical

Dimensions l x w x d	482.6 x 300 x 44mm/ 19 x 11.81 x 1.73" (1U rack)
-------------------------	--

Connectors

10/100/1000 Electrical Fiber	RJ45 SFP (Small Form-factor Pluggable) IEC ⁽¹⁾
Power	

LED indicators & Switch

Power	on / red
10/100/1000BASE-TX/PoE ports	10/100 LNK/ACT - green
10/100/1000BASE-T/SFP ports	100 LNK/ACT - green, 1000LNK/ACT – green

Part Number Configurator

ESMGS24-P4-RXS

- A: US Power Plug
- B: UK Power Plug
- C: Euro Power Plug
- H: Australian Power Plug

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

Due to ongoing technological improvements, product specifications are subject to change without notice. KBC is not liable for any errors, omissions or changes of any description of the goods contained herein. This information is for the sole purpose of identifying the products and KBC makes no warranty that the products conform to any description contained herein. Do not rely solely on any representations, statements, or assertions concerning these Products contained herein.