

ESMGS16-P2-RX Series

Managed Industrial Ethernet Switch with PoE+ 16 Ports: 16 Copper & 2 Shared SFP Ports





Product Description

The KBC ESMGS16-P2 series is a high performance 16 port, industrial, managed Gigabit switch with 16 x 802.3at PoE+ports and 2 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



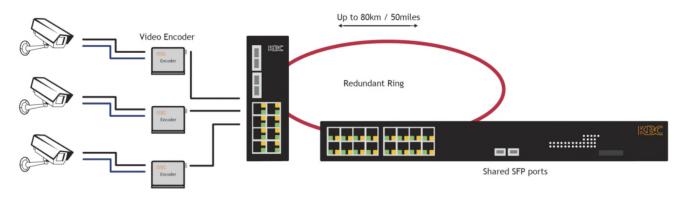
identification of the Powered Device (PD) maintains a reliable power supply to external devices. The KBC ESMGS16-P2 series supports rich network functionalities such as port mirroring, VLAN, trunking, RSTP, rate limiting, port security, SNMP etc.

The ESMGS16-P2 Ethernet switch is available as a 1U rack.

Product Features

- 480W 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 &
- 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

Specifications

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

10/100/1000Base-T(X)

Port configuration Port speed

PoE

Standard **PSE Type** Power Pin Assignment PoE Power Output

PoE Budget

Switch Performance

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

Layer 2 Functions Management interface

Port configuration

RJ45 (16)

SFP (2); 1000Base-SX/LX/BX

Auto MDI / MDI-X Auto-negotiate

802.3af/at End-span 1/2(+), 3/6(-) 30 watts max. per port

480W

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

Port mirroring VLAN

Link aggregation

Quality of Service (QoS)

Multicasting / IGMP

SNMP MIBs

Layer 2 Functions (cont.)

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

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 Power Input 100~240Vac, 50/60Hz

Environmental

Operating Temperature Storage Temperature Operating Humidity

Mean Time Between Failure (MTBF)

Mechanical

Dimensions (L x W x D)

10/100/1000 Electrical

Fiber Power

LED indicators & Switch

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)

RJ-45

SFP (Small Form-factor Pluggable)

on / red

10/100 LNK/ACT - green 100 LNK/ACT - green, 1000LNK/ACT - green

Part Number Configurator

ESMGS16-P2-RA

A: US Power Plug B: UK Power Plug C: Euro Power Plug E: Australian Power Plug

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

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