

Product Description

The KBC ESMGS24-P4-RXN-B series is a high performance, managed Gigabit switch with 24 x 802.3at PoE+ Gigabit downlink ports and 4 Gigabit uplink 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 is up to 470W. 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 switch supports rich network functionalities such as ERPS, VLAN, RSTP, rate limiting, port security, SNMP etc.



The KBC ESMGS24-P4-RXN-B Ethernet switch is available as a 1U rack unit.

Product Features

- Provide 24 PoE+ Gigabit downlink copper ports and 4 Gigabit uplink SFP ports
- Provide web-based layer 2 network management and PoE management by simple operation
- Support IEEE802.3af&at PoE
- Support ITU-T G.8032 Ethernet ring protection, as well as STP, RSTP and MSTP
- Support Command Line Interface (CLI) for fast configuration of major management functions
- Support DHCP Option 82 for IP address assignment with different policies
- Support IGMP snooping and MLD snooping for constraining multicast traffic
- Support private VLAN and IEEE802.1Q VLAN
- Provide lock port function based on MAC address for blocking unauthorized access
- Support IEEE802.3ad LACP for optimum bandwidth utilization
- Support QoS (IEEE802.1p/1Q and TOS/DiffServ) to increase determinism
- Support TACACS+, SNMPv3, IEEE 802.1X, HTTPS, and SSH to enhance network security
- Support SNMPv1/v2c/v3 for different levels of network management
- Support RMON for efficient network monitoring and proactive capability
- Support port mirroring for online debugging
- Support high-speed data forwarding, very suitable for large flow of video data forwarding in security surveillance
- Quick Installation, simple operation, convenient for desk/rack installation

Part Number Configurator

ESMGS24-P4-RXN-B

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

Specifications

Specifications

IEEE Standards

IEEE802.3
IEEE802.3u
IEEE802.3z
IEEE802.3ab
IEEE802.3X
IEEE802.3ad
IEEE802.1Q
IEEE802.1p
IEEE802.1D
IEEE802.1X
IEEE802.1w
IEEE802.1s
IEEE802.3af&at

Ports ⁽¹⁾

10/100/1000Base-T(X) Downlink
1000Mbps SFP Uplink

RJ45 (24)
SFP (4)

PoE

Standard
PSE Type
Power Pin Assignment
PoE Power Output
PoE Budget

IEEE 802.3af/at
End-span
1/2(+), 3/6(-)
30 watts max. per port
470W max.

Switch Performance

Architecture
Capacity
Throughput
Mac Table
Memory Buffer
IGMP Group

Store-and-forward
128Gbps
42Mpps
32k
32M
1024

Layer 2 Functions

Management interface

Web-based GUI and CLI; SSH;
Telnet

Port configuration

SNMP v1, v2 & v3
Port enable/disable; Full duplex;
Speed configuration;
Flow control enable/disable;

VLAN

Port naming
802.1Q VLAN protocol;
port-based VLAN; 4K VLAN

Layer 2 Functions (cont.)

Quality of Service (QoS)

QoS Congestion Management;
15 priority queues; SP, WRR and
SP+WRR queue scheduling;
802.1p CoS/DSCP priority
IGMP v1/v2/v3, IGMP snooping, and
MLI snooping
Total power control; PoE On/Off;
Output port and priority
MAC, port & VLAN binding
combinations; 802.1X;
MAC address auto-learning, aging and
filtration;
Port isolation, port speed limit;
Link aggregation
TFTP/WEB load upgrade;
Traffic statistics;
MAC address table query;
IP address modifications;
Username and password
modification; History and log;
System Configuration Backup;
Recover the default factory settings

Multicasting

PoE

Security

System

Power ⁽²⁾

Power Input
Power Consumption

100-240VAC, 50/60Hz
<30W (without PoE)

Environmental

Operating Temperature
Storage Temperature
Operating Humidity

-30°C - +65°C
-40°C - +85°C
5% to 95% non-condensing

Mechanical

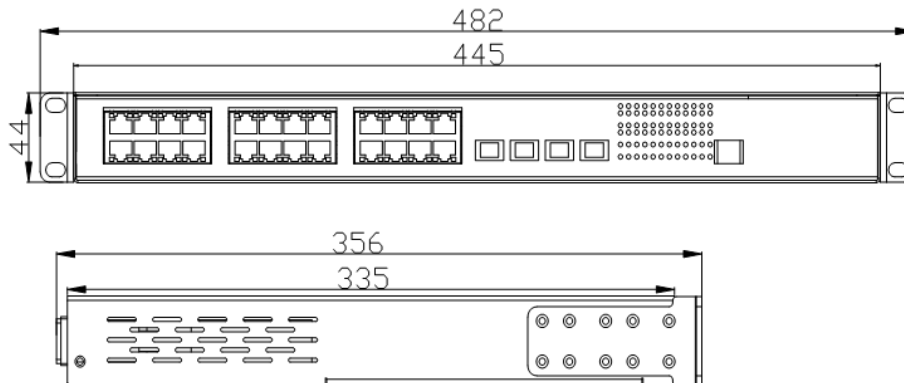
Dimensions (L x W x H)
Weight

445mm x 335mm x 44mm
5.8Kg

Protection

Lightning protection
ESD

6KV Execute: IEC61000-4-5
6KV Contact discharge;
8KV Air discharge;
Execute: IEC61000-4-2



1. SFP module sold separately

2. 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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