

## Product Description

The KBC ESMGS24-P4-RXX-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 480W. 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 and more.

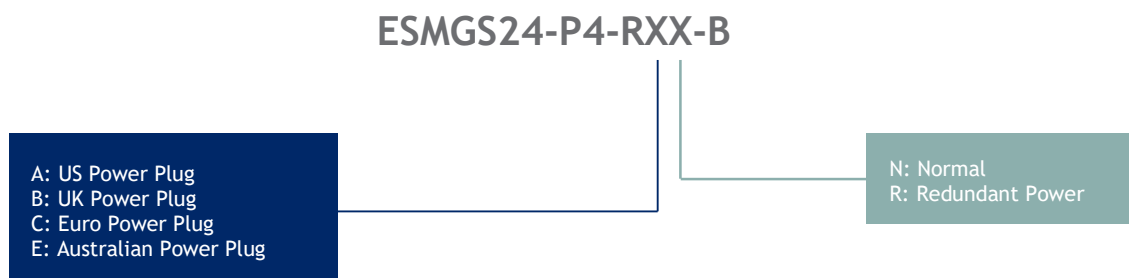


The KBC ESMGS24-P4-RXX-B Ethernet switch is available as a 1U rack unit.

## 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, suitable for a large flow of video data forwarding in security surveillance
- Quick Installation, simple operation, convenient for desk or rack installation
- Optional redundant power supply

## Part Number Configurator



# 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 <sup>(1)</sup>

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  
480W 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;  
Port naming

VLAN

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;

Multicasting

802.1p CoS/DSCP priority  
IGMP v1/v2/v3, IGMP snooping, and  
MLI snooping

PoE

Total power control; PoE On/Off;  
Output port and priority

Security

MAC, port & VLAN binding  
combinations; 802.1X;  
MAC address auto-learning, aging and  
filtration;

System

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

## Power <sup>(2)</sup>

Power Input  
Power Consumption  
Redundant Power<sup>3</sup>

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

## Environmental

Operating Temperature  
Storage Temperature  
Operating Humidity

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

## Mechanical

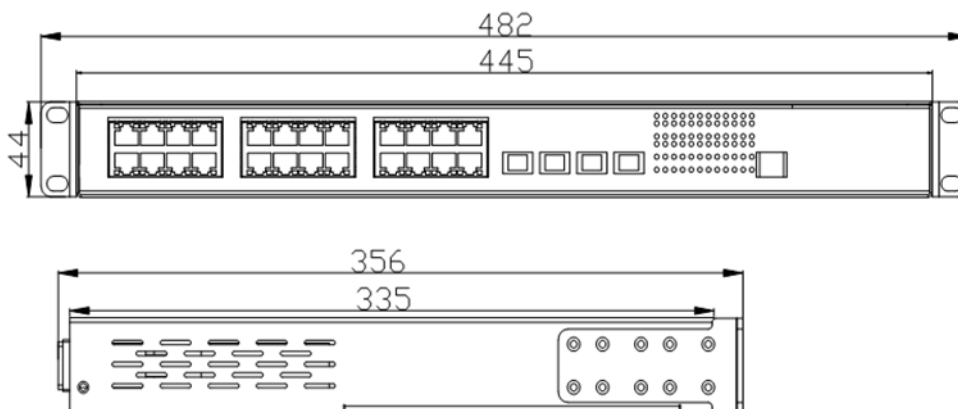
Dimensions (L x W x H)  
Weight

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, UK 3 Pin square, or Australian when placing an order.

3. Please refer to the Part Number Configurator section for part number of switch with redundant power option.

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