

## Product Description

The KBC ESGH24-P4-RXX-B series is a high-performance, managed Gigabit switch with 20 x 802.3at PoE+ Gigabit downlink ports, 4 x 802.3bt and 4 Gigabit uplink SFP ports. It is designed for large-scale IP surveillance applications and networks. Each HPOE port satisfies the high-power consumption requirement of a PoE IP camera within the overall budget. The PoE power budget is up to 750W. The switch is ideal for applications requiring Power Sourcing Equipment (PSE) functionality, such as IP switches, routers and hubs, CCTV DVRs, home networking and industrial Ethernet. The automatic identification of the Powered Device (PD) ensures a reliable power supply to external devices. The switch supports a range of rich network functionalities, including ERPS, VLAN, RSTP, rate limiting, port security, SNMP and more.

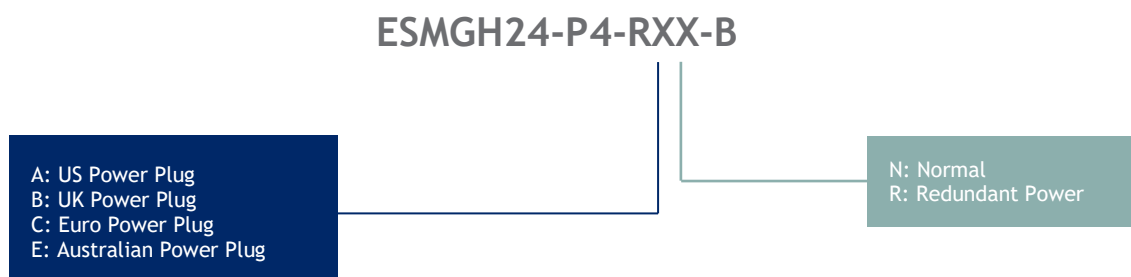


The KBC ESGH24-P4-RXX-B Ethernet switch is available as a 1U rack unit.

## Product Features

- Provides 20 PoE+ and 4 PoE++ Gigabit downlink copper ports and 4 Gigabit uplink SFP ports
- Provides web-based layer 2 network management and PoE management by simple operation
- Supports IEEE802.3af/at/bt PoE
- Supports ITU-T G.8032 Ethernet ring protection, as well as STP, RSTP and MSTP
- Supports Command Line Interface (CLI) for fast configuration of primary management functions
- Supports DHCP Option 82 for IP address assignment with different policies
- Supports IGMP snooping and MLD snooping for constraining multicast traffic
- Supports private VLAN and IEEE802.1Q VLAN
- Provides lock port function based on the MAC address for blocking unauthorized access
- Supports IEEE802.3ad LACP for optimum bandwidth utilization
- Supports QoS (IEEE802.1p/1Q and TOS/DiffServ) to increase determinism
- Supports TACACS+, SNMPv3, IEEE 802.1X, HTTPS, and SSH to enhance network security
- Supports SNMPv1/v2c/v3 for different levels of network management
- Supports RMON for efficient network monitoring and proactive capability
- Supports port mirroring for online debugging
- Supports 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
- An optional redundant power supply is available

## 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&bt
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<b>Ports <sup>(1)</sup></b>	
10/100/1000Base-T(X) Downlink	RJ45 (24)
1000Mbps SFP Uplink	SFP (4)

<b>PoE</b>	
Standard	IEEE 802.3af&at&bt
PSE Type	End-span
Power Pin Assignment	1/2(+), 3/6(-)
PoE Power Output	20 ports, 30 watts max per port 4 ports, 90 watts max per port
PoE Budget	750W max.

<b>Switch Performance</b>	
Architecture	Store-and-forward
Capacity	128Gbps
Throughput	42Mpps
Mac Table	32k
Memory Buffer	32M
IGMP Group	1024

<b>Layer 2 Functions</b>	
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; 802.1p CoS/DSCP priority
Multicasting	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;

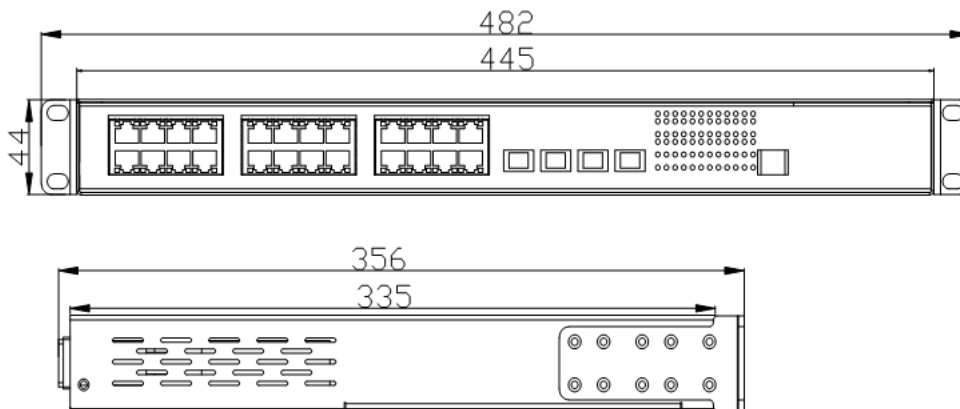
System	Port isolation, port speed limit; Link aggregation TFTP/WEB load upgrade; Traffic statistics; MAC address table query; IP address modifications; Username and password modification; History and log; System Configuration Backup; Recover the default factory settings
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<b>Power <sup>(2)</sup></b>	
Power Input	100-240VAC, 50/60Hz
Power Consumption	<30W (without PoE)
Redundant Power <sup>3</sup>	Optional

<b>Environmental</b>	
Operating Temperature	-30 °C ~ +65 °C
Storage Temperature	-40 °C ~ +85 °C
Operating Humidity	5% to 95% non-condensing

<b>Mechanical</b>	
Dimensions (L x W x H)	445mm x 335mm x 44mm
Weight	5.8Kg

<b>Protection</b>	
Lightning protection	6KV Execute: IEC61000-4-5
ESD	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 the part number of the switch with a redundant power option.

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