

Product Description

The KBC ESMGS24-N4-RXN-B series is a high performance, managed Gigabit switch with 24 x 802.3at PoE+ Gigabit downlink ports and 4 10G 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-N4-RXN-B Ethernet switch is available as a 1U rack unit.

Product Features

- Provide 24 PoE+ Gigabit downlink copper ports and 4 10G 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-N4-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 IEEE802.3ae IEEE802.1Q IEEE802.1p IEEE802.1D IEEE802.1X IEEE802.1w IEEE802.1s IEEE802.3af&at
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Ports ⁽¹⁾

10/100/1000Base-T(X) Downlink	RJ45 (24)
10G SFP Uplink	SFP (4)

PoE

Standard	IEEE 802.3af/at
PSE Type	End-span
Power Pin Assignment	1/2(+), 3/6(-)
PoE Power Output	30 watts max. per port
PoE Budget	470W max.

Switch Performance

Architecture	Store-and-forward
Capacity	128Gbps
Throughput	42Mpps
Mac Table	32k
Memory Buffer	32M
IGMP Group	1024

Layer 2 Functions

Management interface	Web-based GUI and CLI; SSH; Telnet SNMP v1, v2 & v3
Port configuration	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; Port isolation, port speed limit; Link aggregation
System	TFTP/WEB load upgrade; Traffic statistics; MAC address table query; IP address modifications; User name and password modification; History and log; System Configuration Backup; Recover the default factory settings

Power ⁽²⁾

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

Environmental

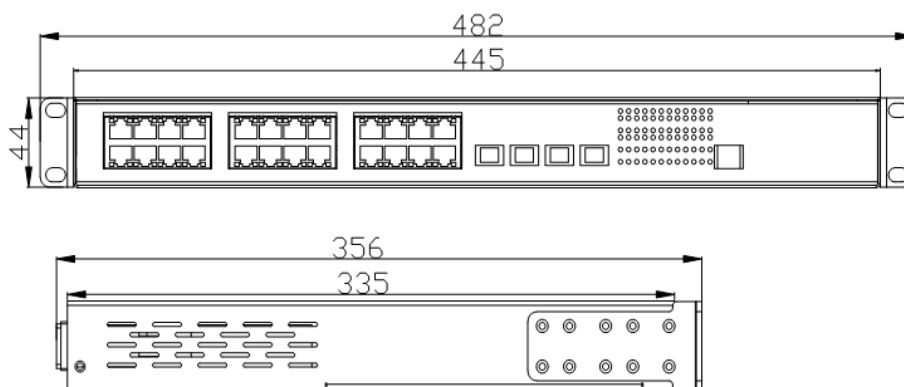
Operating Temperature	-30°C - +65°C
Storage Temperature	-40°C - +85°C
Operating Humidity	5% to 95% non-condensing

Mechanical

Dimensions (L x W x H)	445mm x 335mm x 44mm
Weight	5.8Kg

Protection

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 or UK 3 Pin square or Australian when placing order.

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