ESMPN24-C4-RXX-B Series
Managed Gigabit Ethernet Switch
24 Gigabit SFP Ports and 4 Gigabit Uplink Combo Ports

Product Description

The KBC ESMPN24-C4-RXX-B series is a high performance, managed Gigabit switch with 24 Gigabit SFP ports and 4 uplink Gigabit copper/SFP combo interfaces. The 24 Gigabit SFP ports can be used to connect to media converters, unmanaged and managed switches. The combo design allows users flexibility to increase network expansion.
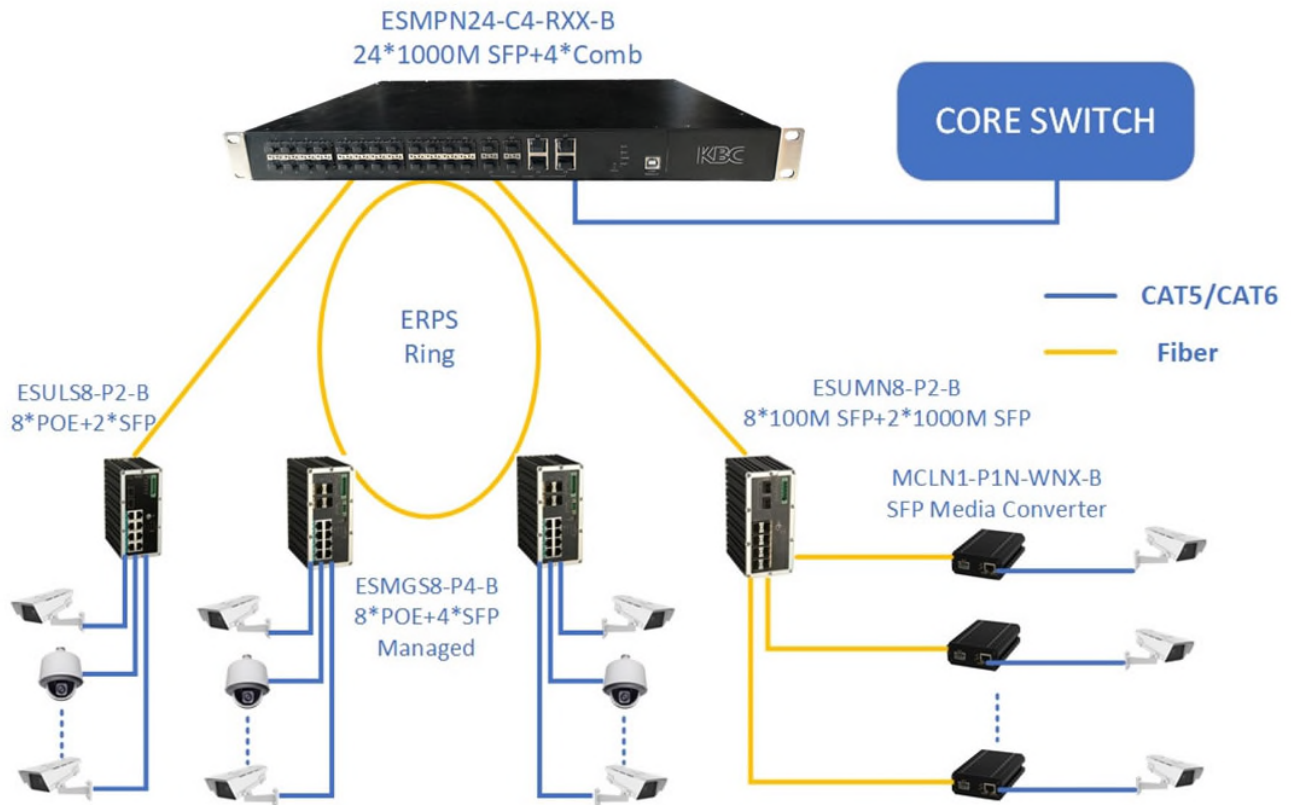
The switch supports rich network functionalities such as ERPS, VLAN, RSTP, rate limiting, port security, SNMP etc. Rugged design and level 3 protection makes it suitable for applications such as the Intelligent Transportation System, IP surveillance applications and networks.

The KBC ESMPN24-C4-RXX-B Ethernet switch is available as a 1U rack unit.
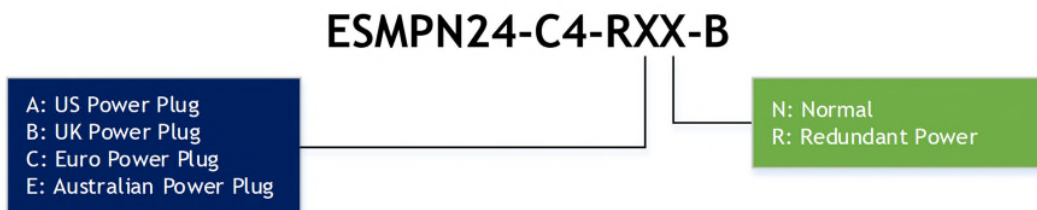
Product Features

- 24 Gigabit SFP ports and 4 Gigabit copper/SFP combo ports
- Web-based layer 2 network management by simple operation
- ITU-T G.8032 Ethernet ring protection, as well as STP, RSTP and MSTP
- Command Line Interface (CLI) for fast configuration of major management functions
- DHCP Option 82 for IP address assignment with different policies
- IGMP snooping and MLD snooping for constraining multicast traffic
- Supports private VLAN and IEEE802.1Q VLAN
- Lock port function based on 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
- RMON for efficient network monitoring and proactive capability
- Port mirroring for online debugging
- 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
- Optional redundant power supply

Typical System Configuration

End to End Full Optical Network Transmission Solution From KBC

Part Number Configurator

ESMPN24-C4-RXX-B

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

N: Normal
R: Redundant Power

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

Ports [1]

100/1000Mbps SFP	28 (including 4 Combo ports)
10/100/1000MBase-T	4 (Combo ports)

Switch Performance

Architecture	Store-and-forward
Capacity	80Gbps
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
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, MLI snooping

Layer 2 Functions (cont.)

Security	MAC, port&VLAN binding combinations; 802.1X; MAC address auto-learning, aging and filtration; Port isolation, port speed limit; Link aggregation
System	FTP/TFTP/HTTP load upgrade; Traffic statistics; MAC address table query; IP address, DNS server modifications; User name and password modification; History and log; System Configuration Backup; Recover the default factory settings

Power [2]

Power Input	110~240VAC, 50/60Hz
Power Consumption	<50W
Redundant Power [3]	Optional

Environmental

Operating Temperature	-40˚ ~ +50˚C
Storage Temperature	-40˚ ~ +85˚C
Operating Humidity	5% to 95% non-condensing

Mechanical

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

Protection

Surge	6KV, IEC61000-4-5
ESD	ESD Level 4: IEC61000-4-2 RS Level 3: IEC61000-4-3 EFT Level 4: IEC61000-4-4 CS Level 3: IEC61000-4-6
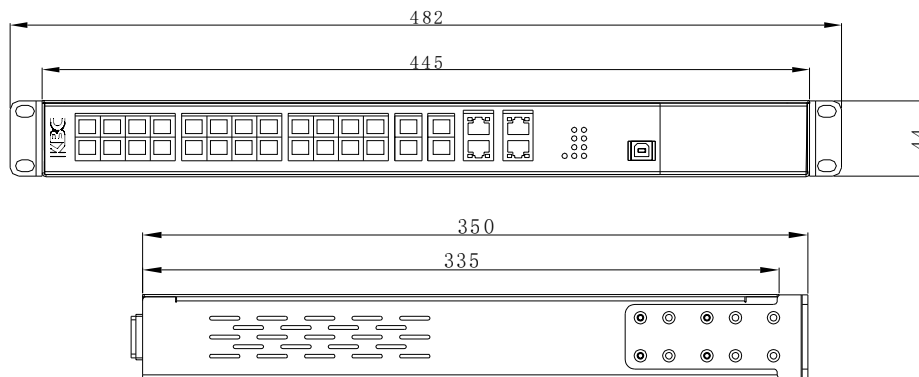
1. SFP module sold separately
2. Please select the power plug from US Standard, Euro 2 Circular or UK 3 Pin square or Australian when placing order.
3. Please refer to the Part Number Configurator section for part number of switch with redundant power option.

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