

### Product Description

The KBC ESMPN24-N4-RXX-B series is a high-performance, managed Gigabit switch with 24 Gigabit SFP ports and 4 x 10 Gigabit SFP ports. The 24 Gigabit SFP ports can be used to connect to media converters and unmanaged and managed switches.



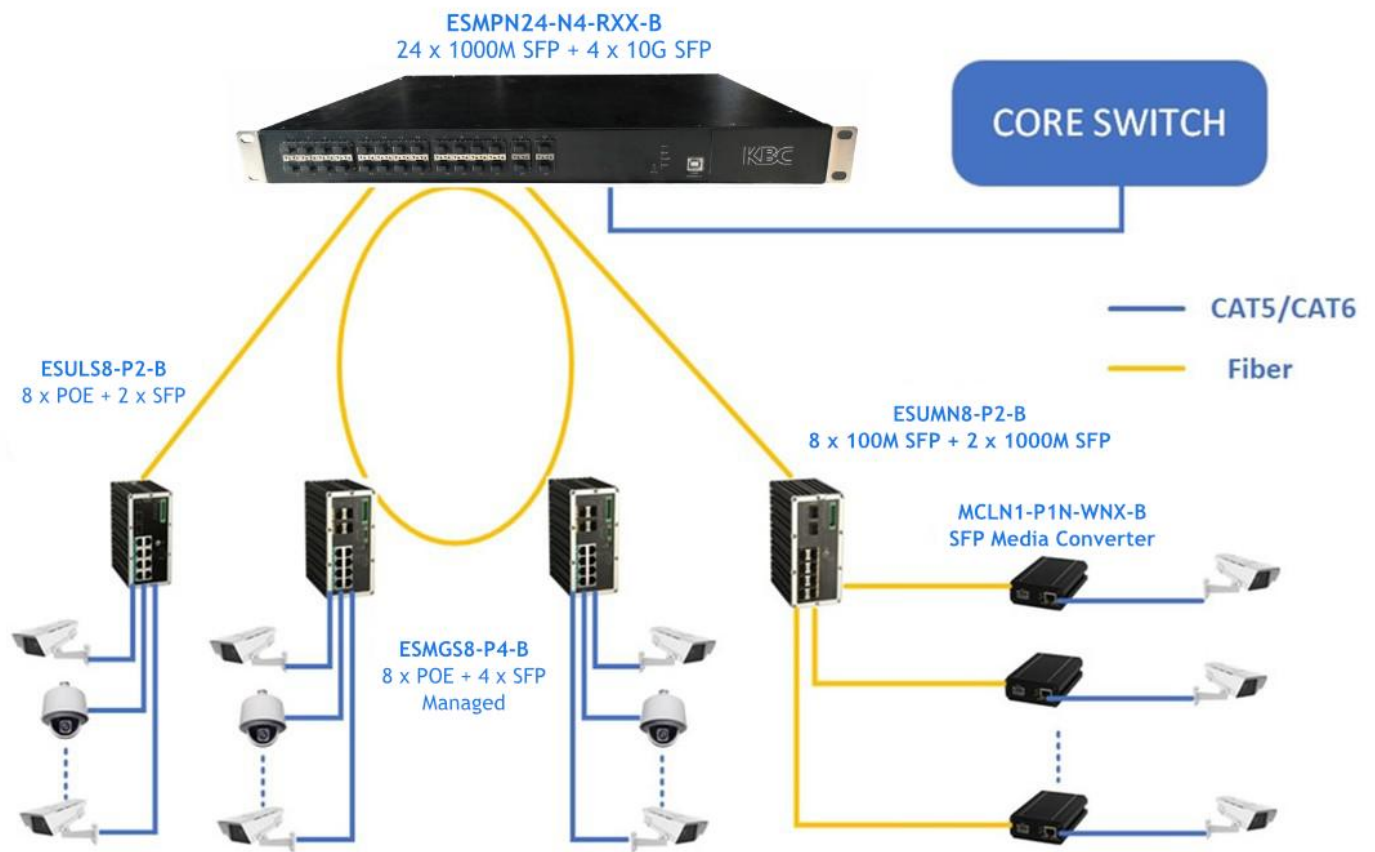
The switch supports rich network functionalities such as ERPS, VLAN, RSTP, rate limiting, port security, SNMP etc. Rugged design and level 3 protection make it suitable for applications such as Intelligent Transportation Systems, IP surveillance applications and networks.

The KBC ESMPN24-N4-RXX-B Series Ethernet switch is available as a 1U rack unit.

### Product Features

- 24 Gigabit SFP ports and 4 x 10 Gigabit SFP 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 a 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-N4-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,<br>IEEE802.3z, IEEE802.3ab<br>IEEE802.3X, IEEE802.3ad<br>IEEE802.1Q, IEEE802.1p<br>IEEE802.1D, IEEE802.1X<br>IEEE802.1w, IEEE802.1s |
|----------------|--|

## Ports <sup>(1)</sup>

|                    |         |
|--------------------|---------|
| 100/1000Mbps SFP   | 24      |
| 10/100/1000MBase-T | 4 x 10G |

## 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<br>SNMP v1, v2 & v3   |
| Port configuration       | Port enable/disable; Full duplex;<br>Speed configuration;<br>Flow control enable/disable;<br>Port naming |
| VLAN                     | 802.1Q VLAN protocol;<br>port-based VLAN; 4K VLAN  |
| Quality of Service (QoS) | QoS Congestion Management;<br>15 priority queues; SP, WRR and<br>SP+WRR queue scheduling;                |
| Multicasting             | 802.1p CoS/DSCP priority<br>IGMP v1/v2/v3, IGMP snooping,<br>MLI snooping                                |

## Layer 2 Functions (cont.)

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

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

|                                |                     |
|--------------------------------|---------------------|
| Power Input                    | 110-240VAC, 50/60Hz |
| Power Consumption              | <50W                |
| Redundant Power <sup>(3)</sup> | Optional            |

## Environmental

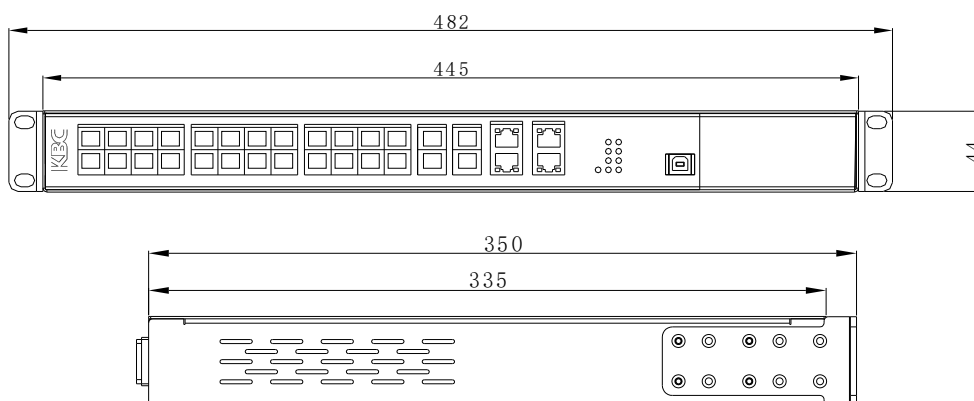
|                       |                          |
|-----------------------|--------------------------|
| Operating Temperature | -40° ~ +50° C            |
| Storage Temperature   | -40° ~ +85° C            |
| Operating Humidity    | 5% to 95% non-condensing |

## Mechanical

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

## Protection

|       |  |
|-------|--|
| Surge | 6KV, IEC61000-4-5  |
| ESD   | ESD Level 4: IEC61000-4-2<br>RS Level 3: IEC61000-4-3<br>EFT Level 4: IEC61000-4-4<br>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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