



Product Description

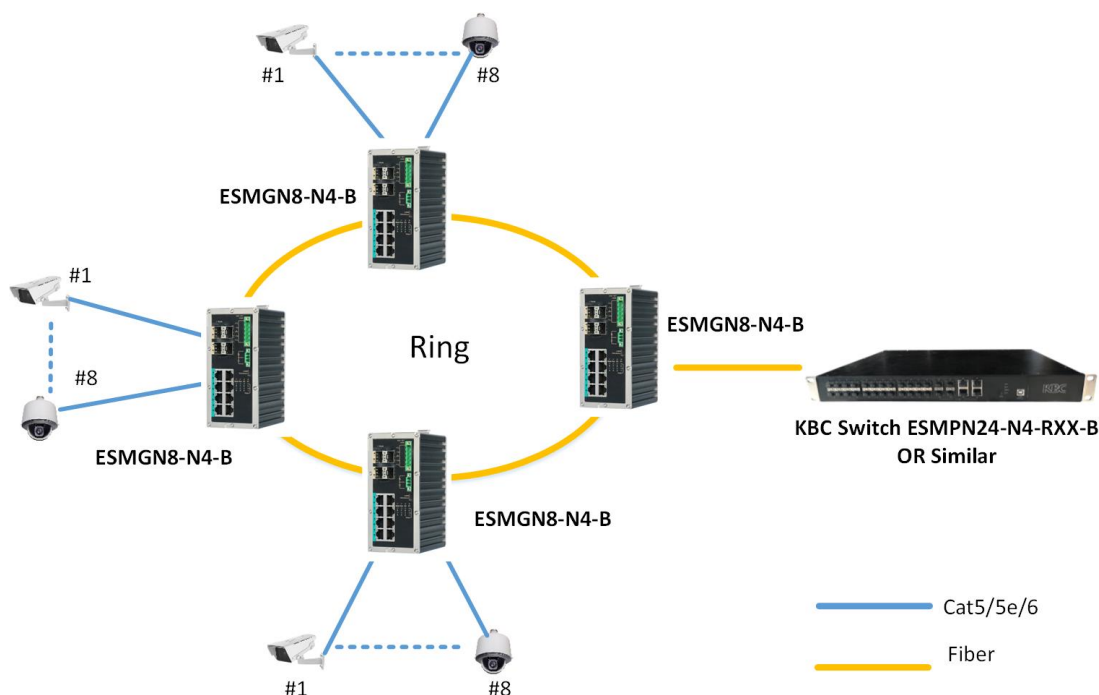
The KBC ESMGN8-N4-B series is a high-performance 12 port, industrial, managed 10-gigabit Ethernet switch with eight 10/100/1000M ports and four 10G SFP optical ports. The switch supports Ethernet Ring Protection Switching (ERPS) as well as STP/RSTP/MSTP. It also supports Web-based network management, VLAN, QoS, SNMP, IGMP snooping and other network functions. LED indicators provide the connection status when using SFP option. Rugged design with IP40 enclosure and industrial level 3 ESD protection makes it suitable for many applications such as Intelligent Transportation Systems, IP surveillance and industrial networks. The product is available in either DIN rail or wall-mount configurations.



Product Features

- 8* 10/100/1000Base-T Ethernet ports
- 4* 10 Gigabit SFP ports
- EPRS (typical recovery time < 30ms over 250 units of connection)
- Different redundancy protocols and standards STP / RSTP / MSTP
- SNMP v1/v2c/v3 & RMON & Port base/802.1Q VLAN network management
- IGMP Snooping multicast function
- WEB, Telnet, SSH, Console (CLI)
- Open and close port, binding MAC and port
- 802.1x network access control
- 802.1Q protocol, Isolate network flow
- Radius Centralized password management
- Overload current protection and reverse polarity protection
- LED display shows transmitting and receiving power of the optics
- IP40 enclosure protection
- Unique DIN mount design makes mount and removal easy

Typical System Configuration



Specifications

Standards

IEEE Ethernet Standards IEEE802.3, IEEE802.3u, IEEE 802.1ab, IEEE802.3z, IEEE 802.3x, IEEE 802.3ad, IEEE 802.1d, IEEE 802.1p, IEEE 802.1q, IEEE 802.1w, IEEE 802.1s, IEEE 802.1x, IEEE 802.1ab

Ports

10/100/1000MBase-T 8
1000MBase-X SFP ⁽¹⁾ 4 10G SFP

Switch Performance

Architecture Store-and-forward
Bandwidth 24Gbps
Buffer 4M
Mac Address Table 8192

Management

Port configuration Port enable/disable; Port rate settings; Full-duplex mode; Flow control;
VLAN 4K VLAN; Port-based VLAN; 802.1Q VLAN protocol
Multicasting SNMP V1/V2/V3 protocols; IGMP Snooping; IGMP multicast group:1024

Console Port

USB (115200-8-N-1)

Security Feature

Enable/disable ports;
MAC based port security;
Port based network access control (802.1x); VLAN (802.1Q);
Radius centralized password management;
SNMP v1/v2c/v3 encrypted authentication and access security

Protocols

ERPS/STP/RSTP/MSTP, SNTP, 1588 PTP Client, DHCP Server/Client, MVR, IGMP v1/v2, GMRP, GVRP, SNMP v1/v2c/v3, TFTP, RMON, RARP, HTTP, HTTPS, Telnet, SSH, Syslog LLDP, IPv6, NTP Server/Client

Warning & Monitoring

Relay output for fault event alarming
Syslog to record and view events
Event selection support

Relay Output

1A@24Vdc NC or NO

Power ⁽²⁾

Redundant Power Input 12 ~ 57Vdc
Power Consumption < 10W
Overload Current Protection Yes
Reverse polarity protection Yes

Environmental

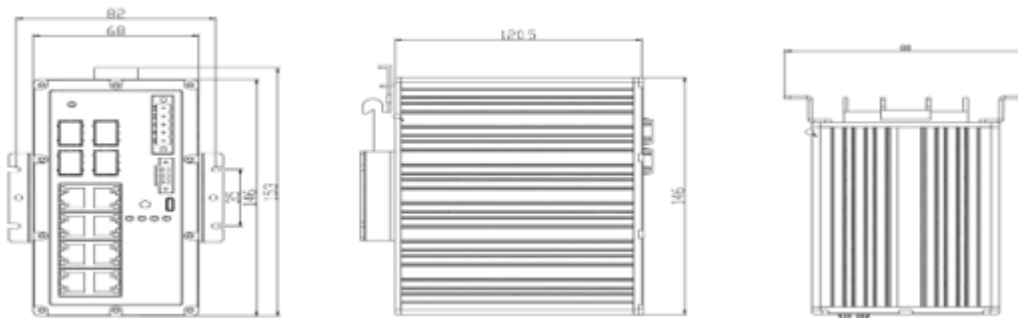
Operating Temperature -40° ~ +75° C
Storage Temperature -40° ~ +85° C
Operating Humidity 5% to 95% non-condensing

Mechanical

Enclosure IP40
Dimension (WxDxH) 68mm × 102.5mm × 146mm
Weight 0.6kg

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



Order Information ⁽²⁾

ES-MGN8-N4-B: Managed, 8*10/100/1000M Base-T, 4*10 Gigabit ports

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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