ESMGN8-C2-B Series
Industrial Managed Ethernet Gigabit Switch
### 12 ports: 8 Gigabit ports and 2 Gigabit Comb ports

Product Description

The KBC ESMGN8-C2-B series is a high performance 10 port, industrial, managed gigabit Ethernet switch with eight 10/100/1000M ports and two gigabit combo 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
- 2* Gigabit Comb 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

Specsheet-ESMGN8-C2-B_Series-Rev1903
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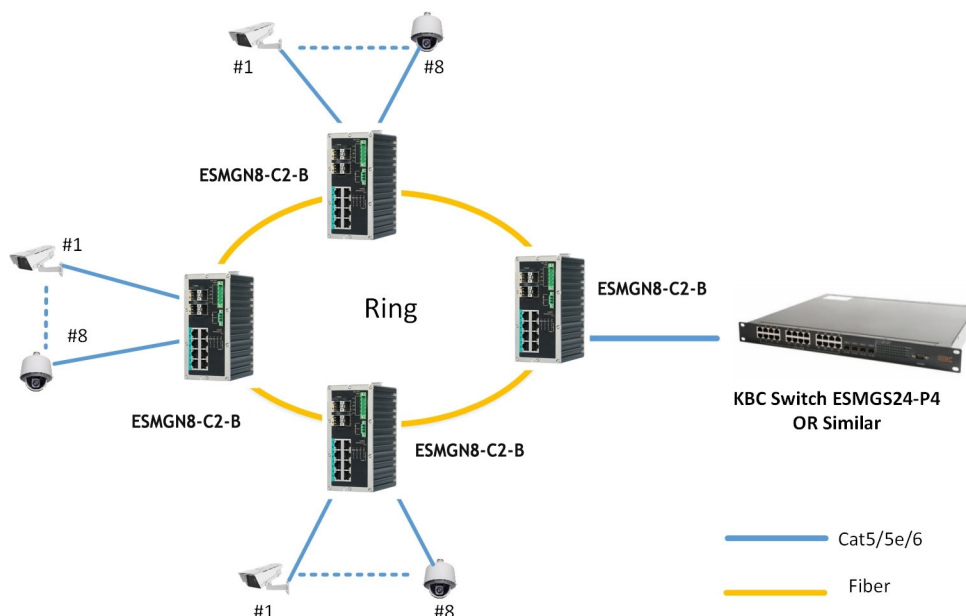
Specifications

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]	2 SFP/Gigabit Ethernet Combo

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 ~ 24Vdc
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 (W×D×H)	68mm × 102.5mm × 146mm
Weight	0.9kg

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
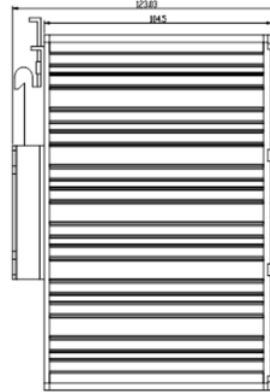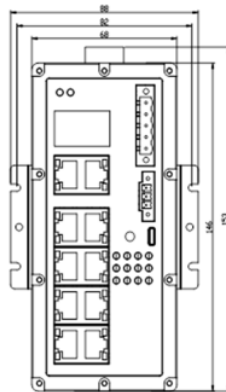
Order Information [2]

ESMGN8-C2-B: Managed, 8*10/100/1000M Base-T, 2 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.