



Product Description

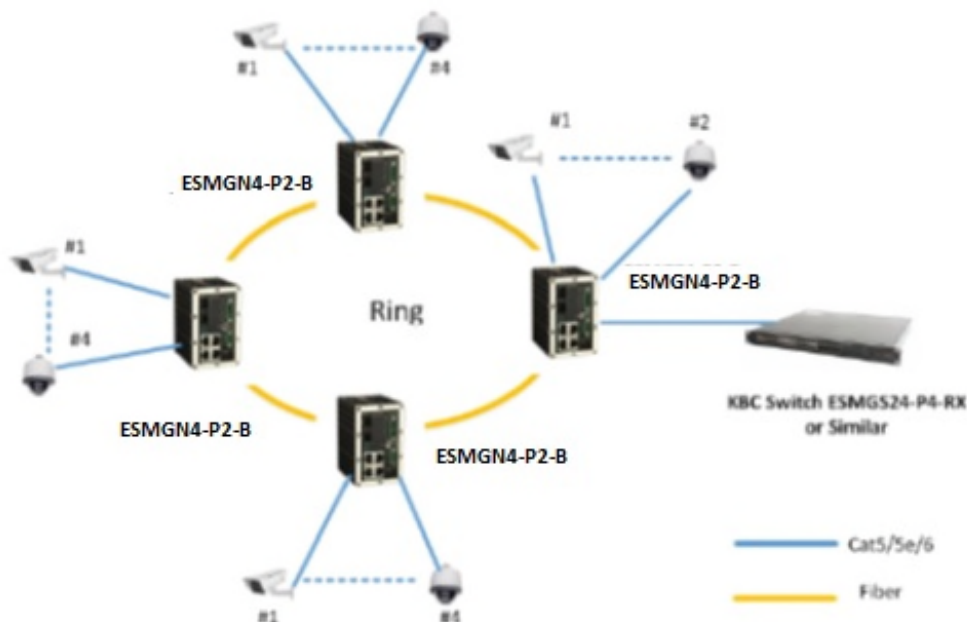
The KBC ESMGN4-P2-B series is a high performance six port, industrial managed gigabit Ethernet switch with four 10/100/1000M ports and two gigabit SFP ports. The switch supports Ethernet Ring Protection Switching (ERPS) as well as STP/RSTP/MSTP. It also supports Web-based network management, VLAN, QoS, SNMP, IGMP snooping and other network functions. Rugged design with IP40 enclosure and industrial level 3 ESD protection makes it suitable for applications such as Intelligent Transportation Systems, IP surveillance and industrial networks. The series is available in either DIN rail or wall-mount configurations.



Product Features

- 4* 10/100/1000Base-T Ethernet ports
- 2* 1000BASE-X SFP ports
- EPRS (typical recovery time < 30ms over 250 units of connection)
- STP / RSTP / MSTP redundancy protocols and standards
- 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	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.3ad, IEEE 802.3az, IEEE 802.1d, IEEE 802.1p, IEEE 802.1q, IEEE 802.1w, IEEE 802.1s, IEEE 802.1x
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Ports

10/100/1000Base-T	4
1000Base-X SFP ⁽¹⁾	2

Switch Performance

Architecture	Store-and-forward
Bandwidth	12Gbps
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

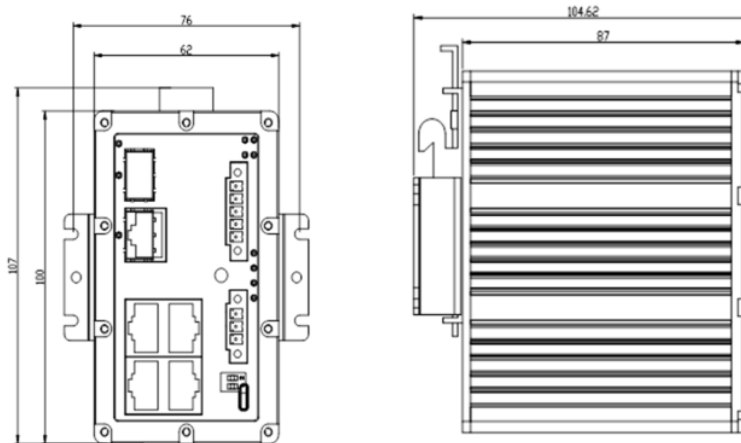
Operating Temperature	-40° ~ +75° C
Storage Temperature	-40° ~ +85° C
Operating Humidity	5% to 95% non-condensing

Mechanical

Enclosure	IP40
Dimension (W×D×H)	62mm × 87mm × 100mm
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

ESMDN4-P2-B: Managed, 4*10/100/1000 Base-T, 2 Gigabit SFP

- SFP module sold separately
- 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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