



## Product Description

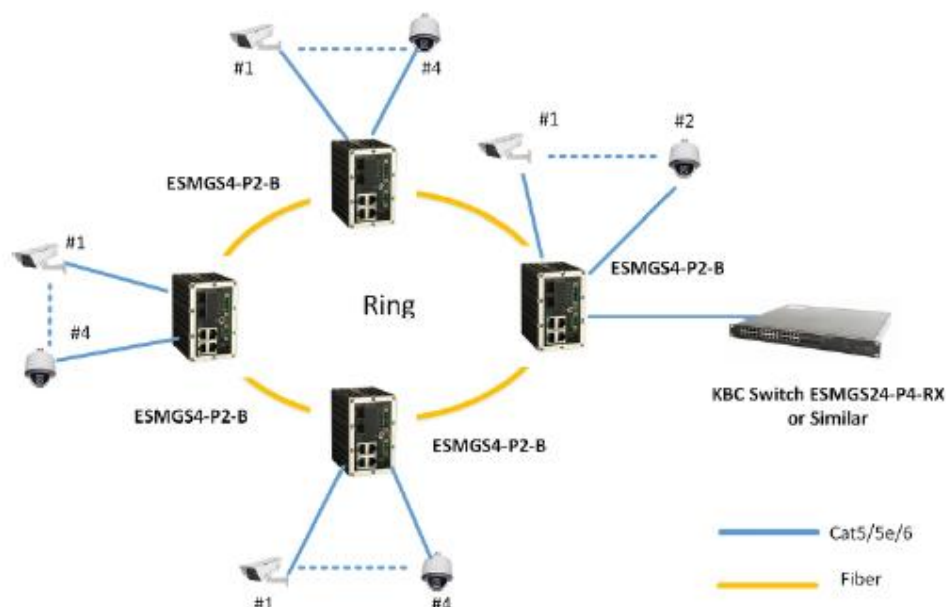
The KBC ESMGS4-P2-B series is a high performance six port, industrial managed gigabit Ethernet switch with four 10/100/1000M PoE ports and two gigabit SFP ports. The four PoE ports support IEEE802.3af/at standard. The switch supports Ethernet Ring Protection Switching (ERPS) as well as STP/RSTP/MSTP. 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 (PoE)
- 2\* 1000Mbps SFP Uplink (SX or LX) 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
- IEEE802.3af/at standard
- 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

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

10/100/1000MBase-T(X) Downlink RJ45 (4)  
1000Mbps SFP Uplink (SX or LX) SFP (2)

## Switch Performance

Architecture Store-and-forward  
Bandwidth 12Gbps  
Buffer 4M  
Mac Address Table 8192

## PoE

Standard IEEE802.3af/at  
PSE Type End-span  
Power Pin Assignment 1/2 (+), 3/6 (-)  
Power Output <sup>(2)</sup> Each port up to 30W

## 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)

## PoE Management

Total Power Consumption Control; PoE ON/OFF; Port Output Priority;

## Mechanical

Enclosure IP40  
Dimension (W×D×H) 62mm × 87mm × 100mm  
Weight 0.6kg

## Security Feature

Enable/disable ports;  
MAC based port security;  
Port-based network access control (802.1x); VLAN (802.1Q);  
Radius centralized password mgmt;  
SNMP v1/v2c/v3 encrypted authentication and access security;  
TACACS+ authentication;  
IP and MAC ACLs;  
DHCP Snooping

## Protocols

ERPS/STP/RSTP/MSTP, SNTP, 1588 PTP Client, DHCP Server/Client, MVR, IGMP v1/v2/v3, 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<sup>(3)</sup>

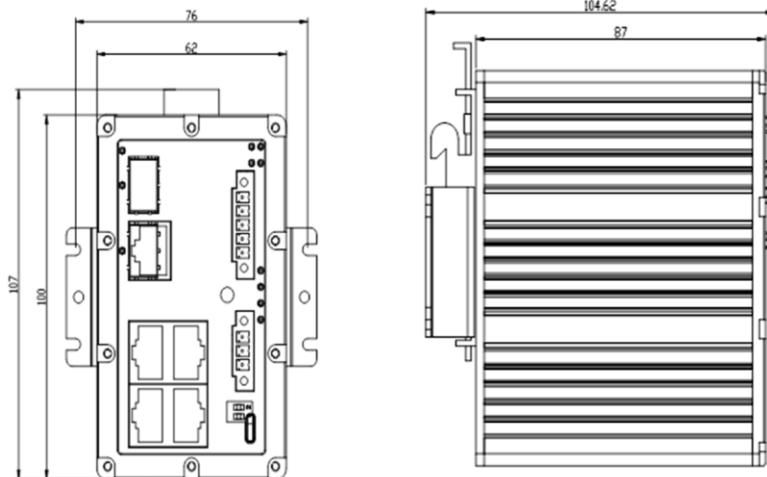
Redundant Power Input 46 ~ 57Vdc  
Power Consumption < 10W (Without PoE output)  
POE budget 120W  
Overload Current Protection Yes  
Reverse polarity protection Yes

## Environmental

Operating Temperature -40° ~ +75° C  
Storage Temperature -40° ~ +85° C  
Operating Humidity 5% to 95% non-condensing  
Mean Time Between Failure (MTBF) > 100,000 Hours

## 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

**ESMS4-P2-B: Managed, 4\*10/100/1000 Base-T PoE/PoE+, 2 Gigabit SFP**

1. SFP module sold separately
2. Each port supports a maximum of 30W output. Output can be managed via Web software
3. Power supply sold separately

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