# ESMGS4-P2-B Series

Industrial Managed Ethernet Gigabit Switch with PoE+
6 ports: 4 PoE+ ports and 2 SFP ports

data delivered

## 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* 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
- 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
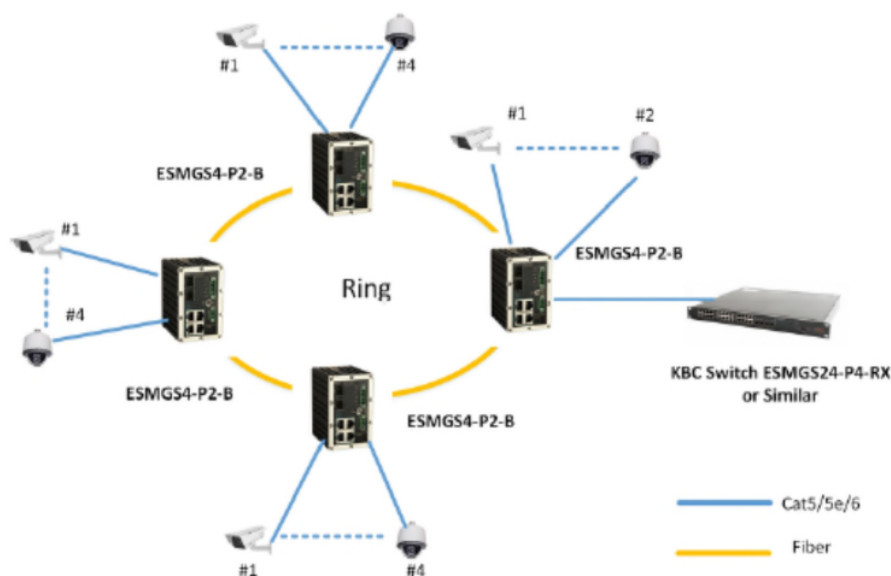
# Specifications

## 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

| | |
|---|---|
| 10/100/1000MBase-T | 4 |
| 1000MBase-X SFP [1] | 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 [2] | 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 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 [3]

| | |
|---|---|
| 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 |

## 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 |
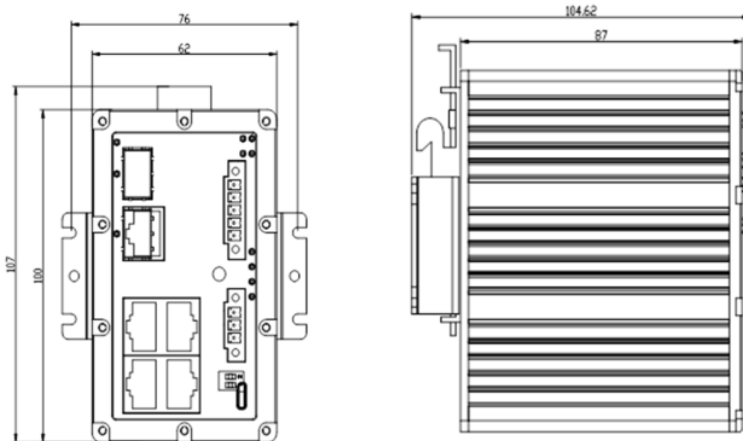


# Order Information

**ESMGS4-P2-B:** Managed, 4*10/100/1000 Base-T PoE/PoE+, 2 Gigabit SFP

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