KBC
data delivered

ESMGS4-P2-B Series
Industrial Managed Gigabit Ethernet Switch with PoE+
6 ports: 4 PoE+ ports and 2 SFP ports


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 with 250 connected units)
- STP / RSTP / MSTP redundancy protocols and standards
- SNMPv1/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
- IP40 enclosure protection
- Unique DIN mount design makes mounting and removal simple
- Both PoE and Non-PoE models are available

Typical System Configuration
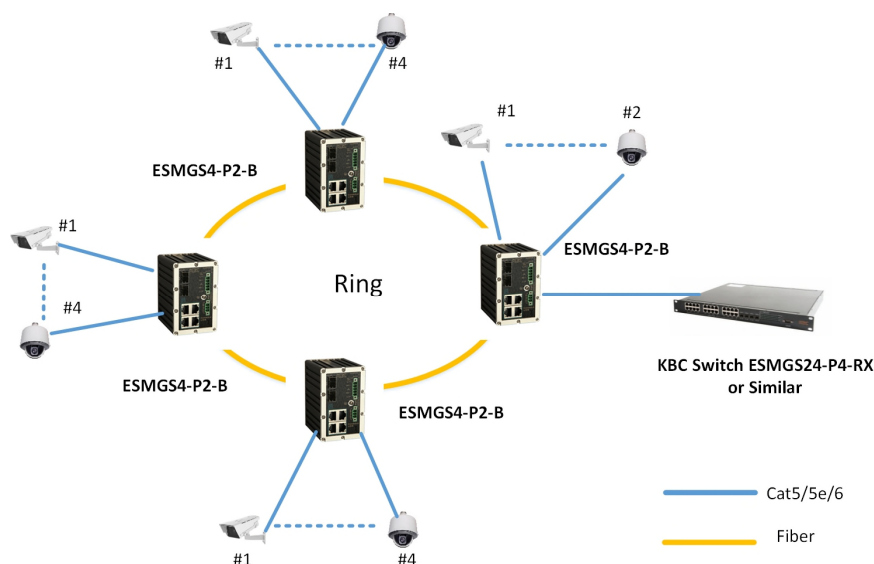
Specifications

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	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)

Mechanical

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

PoE Management

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

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, SMTP
	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	48 ~ 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%~95% non-condensing
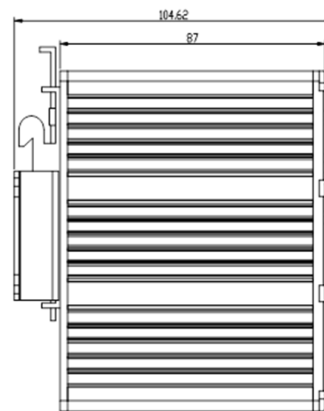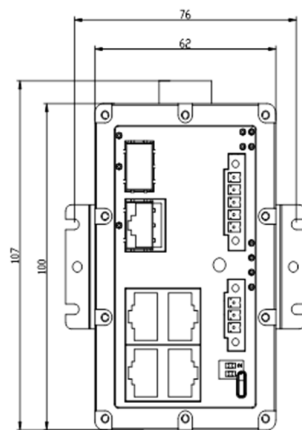
Order Information

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

ESMGN4 – P2 – B: Managed, 4*10/100/1000 Base-T, 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.