ESMGS8-P4-B Series

Industrial Managed Gigabit Ethernet Switch with PoE+
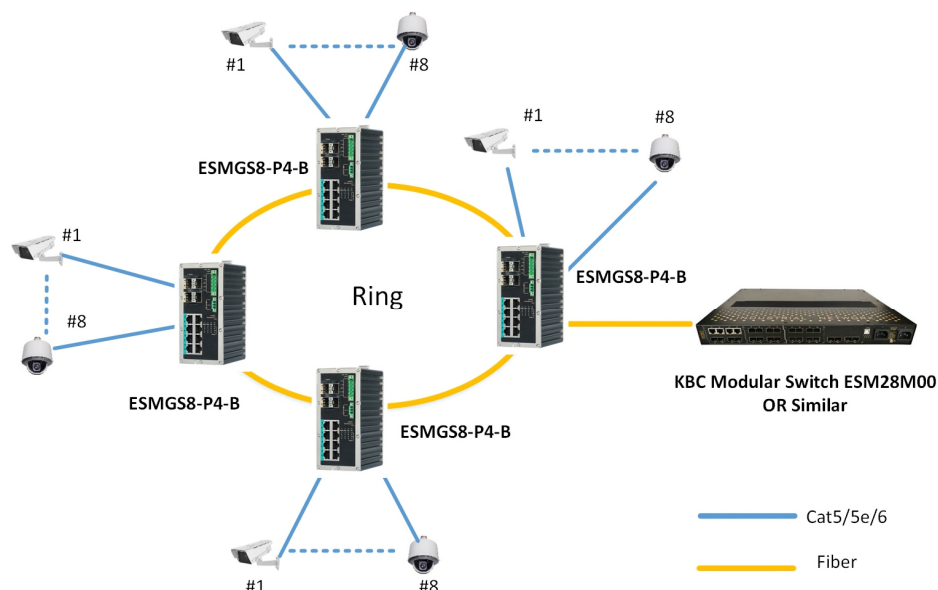12 ports: 8 PoE+ ports and 4 SFP ports

Product Description

The KBC ESMGS8-P4-B Series is a high performance, 12 port, industrial, managed Gigabit switch with eight 10/100/1000M PoE ports and four gigabit SFP ports. The eight 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. 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 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 (PoE)
- 4* 1000BASE-X SFP ports
- EPRS (typical recovery time < 30ms over 250 units of connection)
- Different redundancy protocols and standards STP/RSTP/MSTP
- SNMPv1/v2c/v3 & RMON & Port base/802.1Q VLAN network management
- 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
- IGMP Snooping multicast function
- IEEE802.3af/at standard
- Overload current protection and reverse polarity protection
- LED displays connection status when using SFP
- 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	8
1000MBase-X SFP [1]	4

Switch Performance

Architecture	Store-and-forward
Bandwidth	24Gbps
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)	68mm × 102.5mm × 146mm
Weight	0.9kg

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 warning notification via email
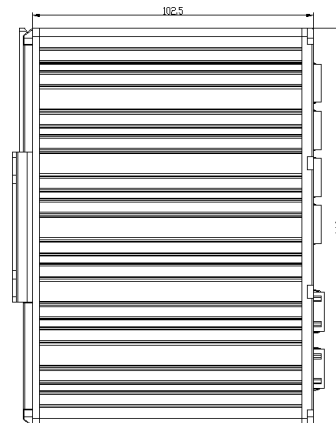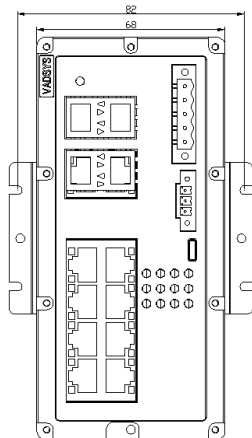Event selection support

Relay Output

1A@24VDC NC or NO

Power [3]

Redundant Power Input	46 ~ 57Vdc
Power Consumption	< 10W（without PoE output)
POE budget	240W
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

Order Information

ESMGS8 – P4 – B:　Managed, 8*10/100/1000 Base-T POE/POE+, 4 Gigabit SFP

ESMGN8 – P4 – B:　Managed, 8*10/100/1000 Base-T, 4 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.

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