



## ESMGS8-P2-L-B

Industrial Managed Ethernet Gigabit Switch with PoE+  
10 ports: 8 PoE+ ports, 2 SFP ports  
Powered by 9 ~ 36VDC



### Product Description

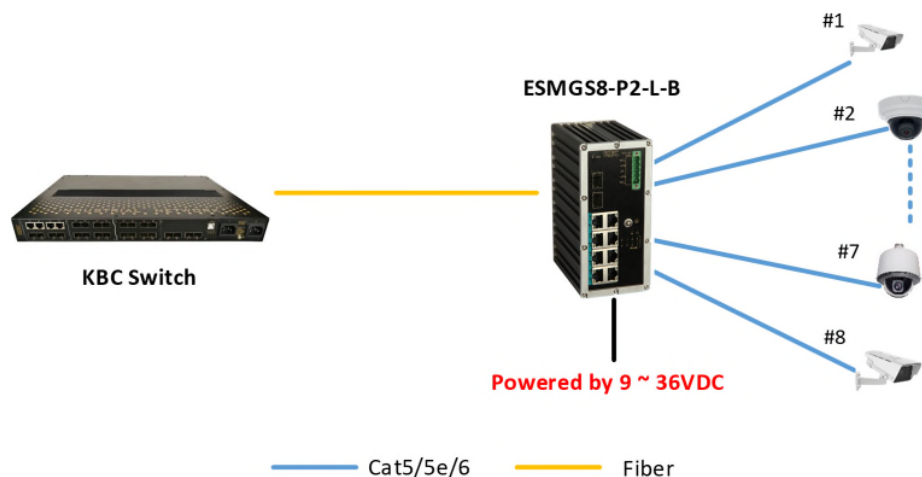
The KBC ESMGS8-P2-L-B series is a high performance, industrial managed gigabit switch with eight 10/100/1000M PoE ports and two gigabit SFP ports. **The switch is powered by 9 ~ 36 VDC so that it is right choice in the application where +12VDC or 24VDC power are available.** The eight PoE ports support 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 protection makes it suitable for a lot of application such as Intelligent Transportation System, IP surveillance applications and industrial networks. The product is available for DIN or wall-mount configurations.



### Product Features

- 9 ~ 36VDC Power supply input
- 8\* 10/100/1000Base-T Ethernet ports (PoE)
- 2\* 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 mount and removal easy

### Typical System Configuration



## Specifications

### Standards

IEEE 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 <sup>(1)</sup>	2

### Switch Performance

Architecture	Store-and-forward
Switch Capacity	24Gbps
Buffer	4M
Mac Address Table	8192

### PoE

Standard	802.3af/at
PSE Type	End-span
Power Pin Assignment	1/2(+), 3/6(-)
PoE 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)

### Mechanical

Enclosure	IP40
Dimension (W×D×H)	85mm × 102.5mm × 146mm
Weight	0.8kg

### 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, RMON,  
RARP, HTTP, HTTPS, Telnet, SSH, Syslog  
LLDP, IPv6, NTP Server/Client

### Warning & Monitoring

Power alarm (alarm on with 1 power input, off with 2 power input)  
Syslog to record and view events  
Event selection support

### Relay Output

1A@24VDC NC or NO

### Power <sup>(3)</sup>

Redundant Power Input	9 - 36Vdc
Power Consumption	<10W (Without POE output)
POE Budget <sup>(4)</sup>	160W
Overload Current Protection	Yes
Reverse polarity protection	Yes

### 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

### Environmental

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

## Order Information

**ESMGS8-P2-L-B: 8\*10/100/1000M 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.
4. POE budget is related with power input. POE Budget is 160W with 24VDC; POE Budget is 90W with 12VDC; POE Budget is 180W with 36VDC.

*Due to ongoing technological improvements, product specifications are subject to change without notice. KBC is not liable for any errors, omissions or changes of any description of the goods contained herein. This information is for the sole purpose of identifying the products and KBC makes no warranty that the products conform to any description contained herein. Do not rely solely on any representations, statements, or assertions concerning these Products contained herein.*