

## Product Description

The KBC ESSGS8-B is an **Industrial Unmanaged Plus Gigabit PoE+ Switch** designed for critical, space-constrained, and harsh-environment applications. Part of KBC's next-generation Unmanaged Plus family, the ESSGS8-B provides the plug-and-play simplicity of an unmanaged switch while adding **PowerPilot™ PoE Control**—a lightweight web-based GUI that enables users to check PoE usage and requested PoE power, power-cycle, and schedule PoE ports without requiring any advanced network configuration.

Built in a compact IP40 metal enclosure with extended operating temperatures and industrial-grade EMC protection, the switch is engineered for reliable operation in transportation, utilities, energy, perimeter security, industrial automation, and remote infrastructure deployments.

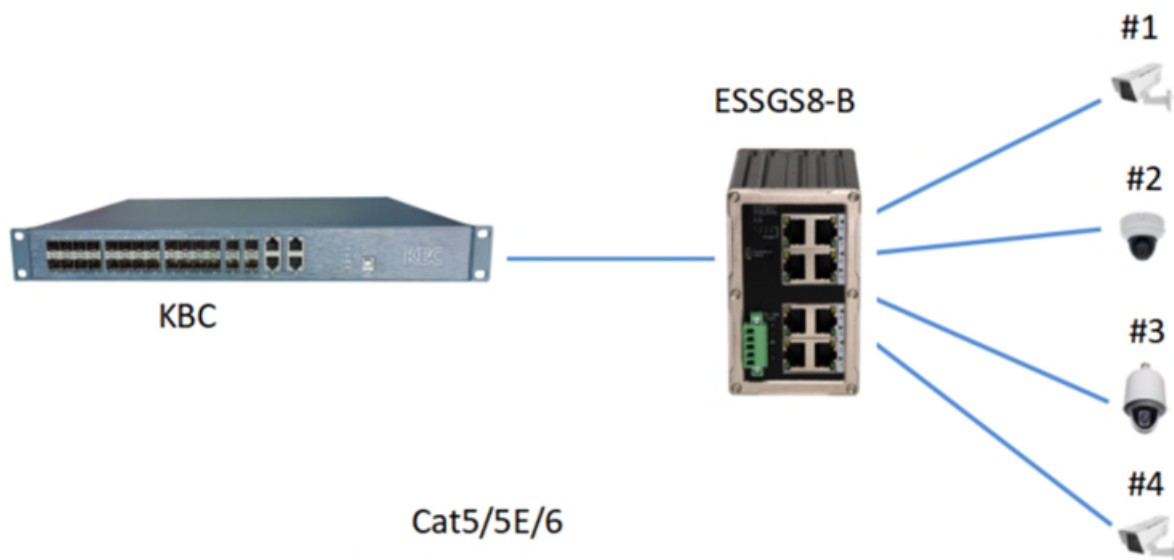
## PowerPilot



## Product Features

- Unmanaged design with PowerPilot™ PoE monitoring and control
- Web-based GUI interface
- PoE power monitoring per port
- PoE port on/off control
- PoE power scheduling (daily/weekly)
- Auto Sensing/self-reset PoE function
- PoE budget display
- 8x 10/100/1000Base-T(X) PoE+ ports
- Each PoE port outputs up to 30W; 240W total PoE budget
- Supports IEEE802.3af&at
- Overload current protection and reverse polarity protection
- Level 3 ESD protection
- Rugged IP40 housing design
- Supports DIN-rail or wall-mounted
- Unique DIN mount design makes mounting and removal easy

## Typical System Configuration



## Specifications

### Standards

|                |                                                                                 |
|----------------|---------------------------------------------------------------------------------|
| IEEE Standards | IEEE802.3, IEEE802.3u,<br>IEEE802.3x, IEEE802.3z<br>IEEE802.3ab, IEEE802.3af&at |
|----------------|---------------------------------------------------------------------------------|

### Ports

|                   |                        |
|-------------------|------------------------|
| 10/100/1000Base-T | RJ45 (8 with PoE/PoE+) |
|-------------------|------------------------|

### Switch Performance

|                 |                   |
|-----------------|-------------------|
| Architecture    | Store-and-forward |
| Memory Buffer   | 512K              |
| Switch Capacity | 20Gbps            |
| Mac Table       | 1K                |

### PoE

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

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

|                             |                    |
|-----------------------------|--------------------|
| Redundant Power Input       | 45 ~ 57Vdc         |
| Power Consumption           | < 5W (without PoE) |
| PoE Budget                  | 240W max.          |
| Overload Current Protection | Yes                |
| Reverse polarity protection | Yes                |

### Protection

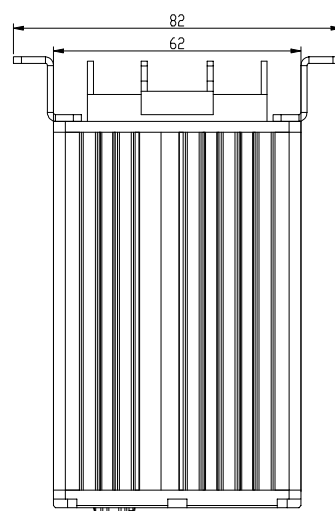
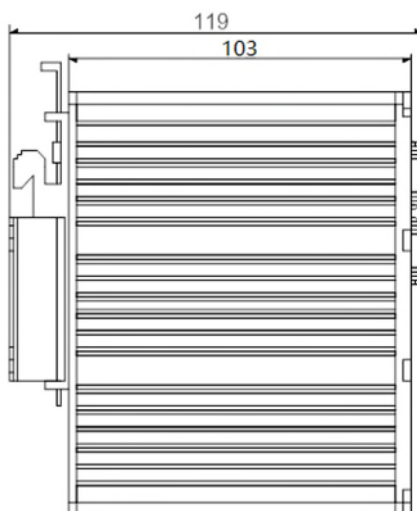
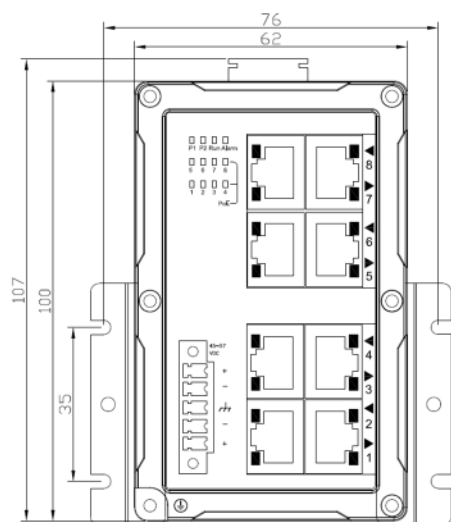
|       |                                                                                                                |
|-------|----------------------------------------------------------------------------------------------------------------|
| Surge | 6KV, IEC61000-4-5                                                                                              |
| ESD   | ESD Level 4: IEC61000-4-2<br>RS Level 3: IEC61000-4-3<br>EFT Level 4: IEC61000-4-4<br>CS Level 3: IEC61000-4-6 |

### Environmental

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

### Mechanical

|                   |                      |
|-------------------|----------------------|
| Enclosure         | IP40                 |
| Dimension (L×W×H) | 62mm × 103mm × 100mm |
| Weight            | 0.6kg                |



## Order Information

**ESSGS8-B:** Industrial Unmanaged Ethernet Gigabit Switch with PowerPilot™ PoE Control, 8x10/100/1000Base-T(x) PoE+ ports

1. Power supply sold separately. See [www.kbcnetworks.com](http://www.kbcnetworks.com) for more information.

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