

Product Description

The KBC ESSGS4-P2-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 ESSGS4-P2-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.

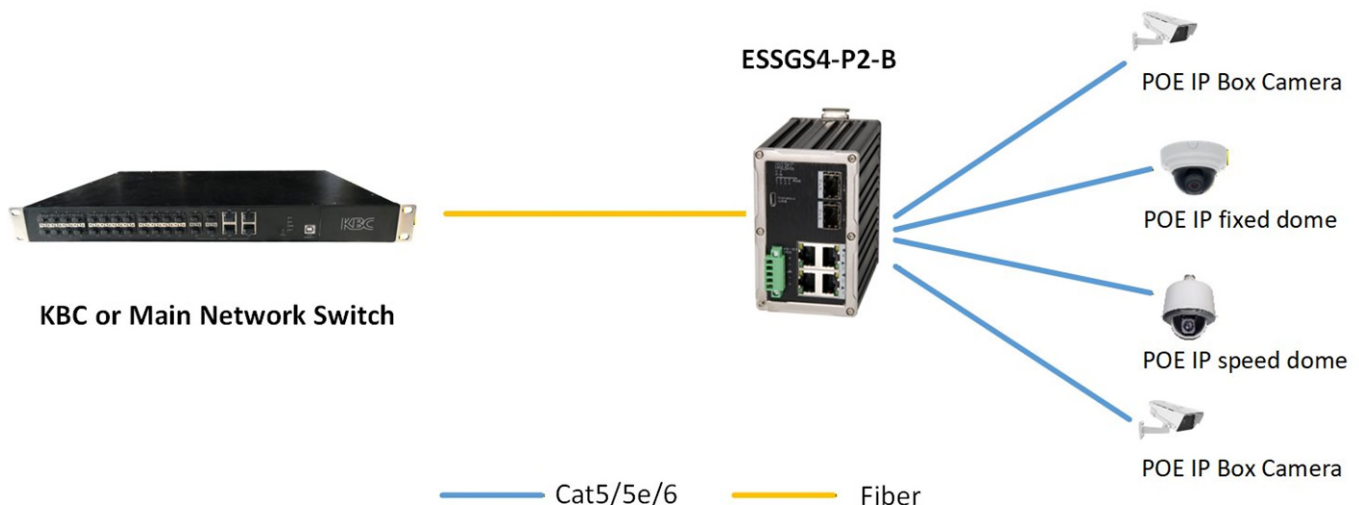
PowerPilot



Product Features

- Unmanaged design with PowerPilot™ PoE 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
- 4x PoE+ ports, 2x 1G SFP Ports
- Each PoE port outputs up to 30W; 120W 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, IEEE802.3x, IEEE802.3z IEEE802.3ab, IEEE802.3af&at
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Ports⁽²⁾

10/100/1000Base-T SFP Ports	RJ45 (4x PoE/PoE+) 2x 1G SFP Ports
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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⁽¹⁾

Redundant Power Input	45 ~ 57Vdc
Power Consumption	< 5W (without PoE)
PoE Budget	120W max.
Overload Current Protection	Yes
Reverse polarity protection	Yes

Protection

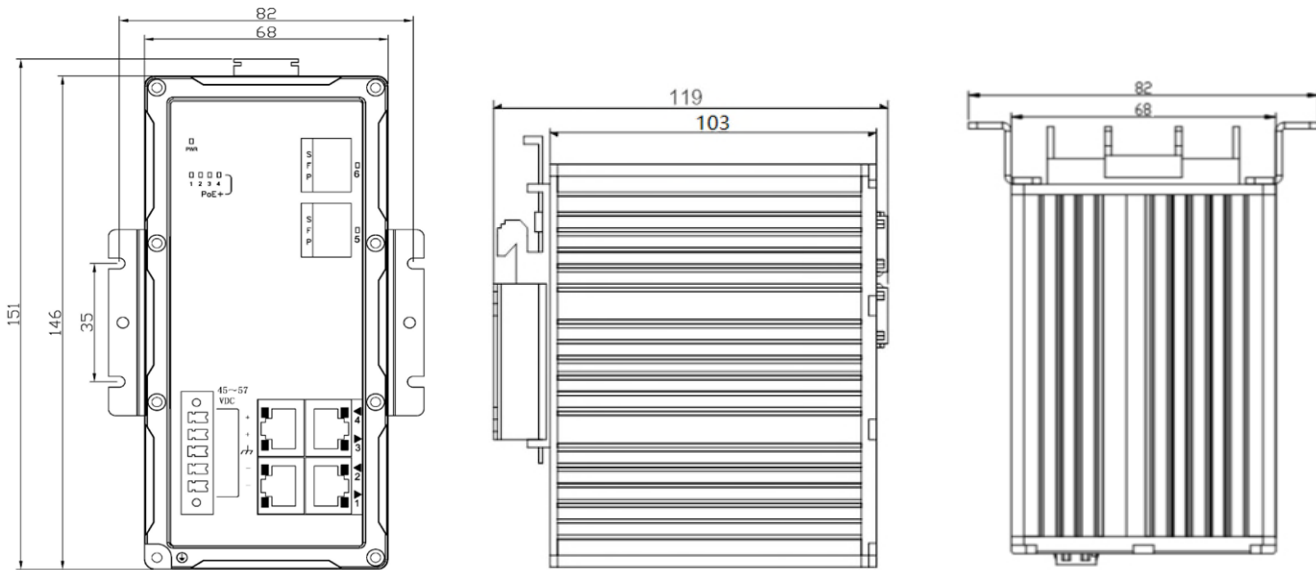
Surge	6KV, IEC61000-4-5
ESD	ESD Level 4: IEC61000-4-2 RS Level 3: IEC61000-4-3 EFT Level 4: IEC61000-4-4 CS Level 3: IEC61000-4-6

Environmental

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

Mechanical

Enclosure	IP40
Dimension (L×W×H)	68mm × 103mm × 146mm
Weight	0.6kg



Order Information

ESSGS4-P2-B: Industrial Unmanaged Ethernet Gigabit Switch with PowerPilot™ PoE Control, 4x10/100/1000Base-T(x) PoE+ Ports, 2x 1G SFP Ports

1. Power supply sold separately. (KBC NDR-120-48) See www.kbcnetworks.com for more information.
2. SFP Modules sold separately. See www.kbcnetworks.com for more information.

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