

Product Description

The KBC ESSGH4-P2-B is an **Industrial Unmanaged Plus Gigabit Switch with PoE++** designed for critical, space-constrained, and harsh-environment applications. Part of KBC's next-generation Unmanaged Plus family, the ESSGH4-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.

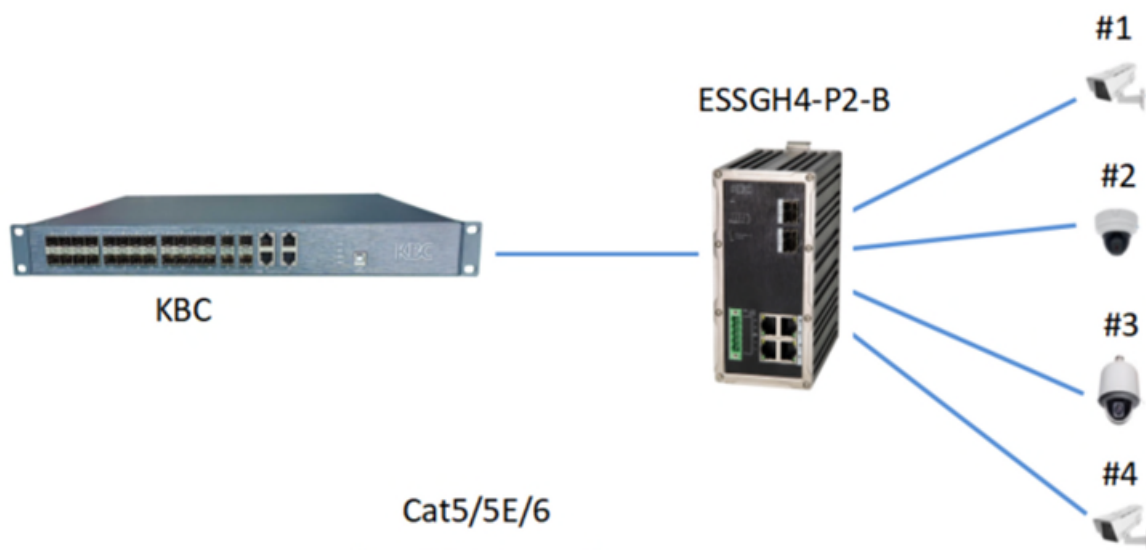
PowerPilot



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 10/100/1000Base-T(x) ports, 4 PoE++ ports, 2x 1G SFP Ports
- Each PoE port outputs up to 90W; 360W total PoE budget
- Supports IEEE802.3af&at&bt
- Overload current protection and reverse polarity protection
- Level 3 ESD protection
- Rugged IP40 housing design
- Supports DIN-rail or wall-mount
- 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&bt

Ports⁽²⁾

10/100/1000Base-T
SFP Ports

RJ45 (4, 4 with PoE/PoE++)
2x 1G SFP Ports

Switch Performance

Architecture
Memory Buffer
Switch Capacity
Mac Table

Store-and-forward
512K
20Gbps
1K

PoE

Standard
PSE Type
Power Pin Assignment
PoE Power Output

IEEE802.3af/at/bt
End-span
1/2(+), 3/6(-)
Each PoE port up to 90W

Power⁽¹⁾

Redundant Power Input
Power Consumption
PoE Budget
Overload Current Protection
Reverse polarity protection

52 ~ 57Vdc
< 5W (without PoE)
360W max.
Yes
Yes

Protection

Surge
ESD

6KV, IEC61000-4-5
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

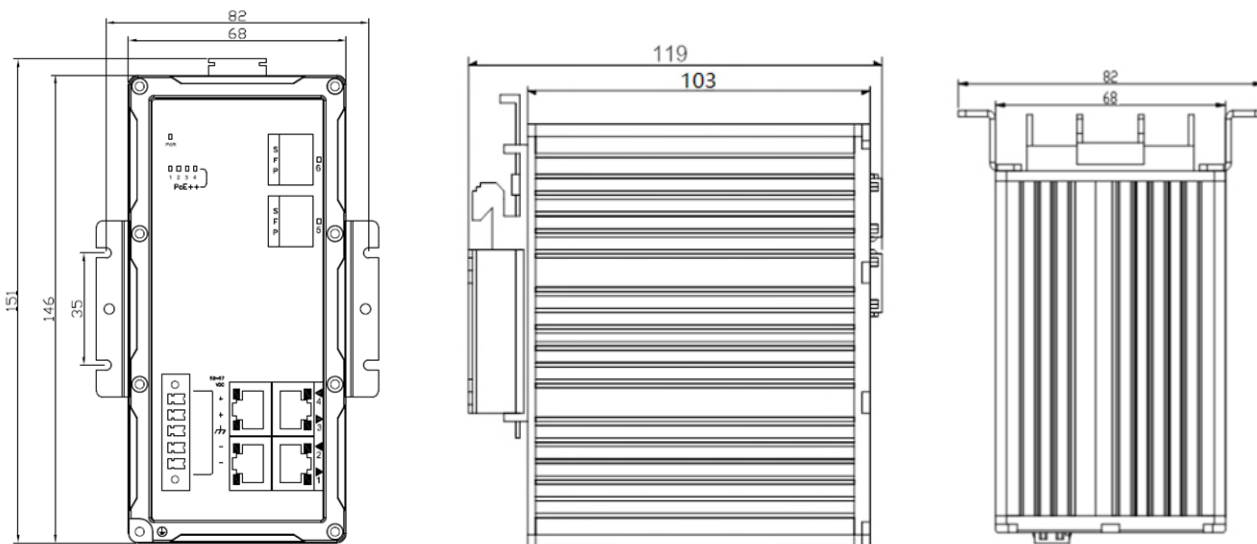
Operating Temperature
Storage Temperature
Operating Humidity

-40°C ~ +75°C
-40°C ~ +85°C
5% to 95% non-condensing

Mechanical

Enclosure
Dimension (L×W×H)
Weight

IP40
68mm × 103mm × 146mm
0.6kg



Order Information

ESSGH4-P2-B: Industrial Unmanaged Ethernet Gigabit Switch with PowerPilot™ PoE Control, 4x10/100/1000Base-T(X) ports, 4 PoE++ ports, 2x 1G SFP Ports.

1. Power supply sold separately. See www.kbcnetworks.com for more information.
2. SFP Modules sold separately. See www.kbcnetworks.com for more information.

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