

Product Description

The KBC ESSGH2-G1-L-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 ESSGH2-G1-L-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.

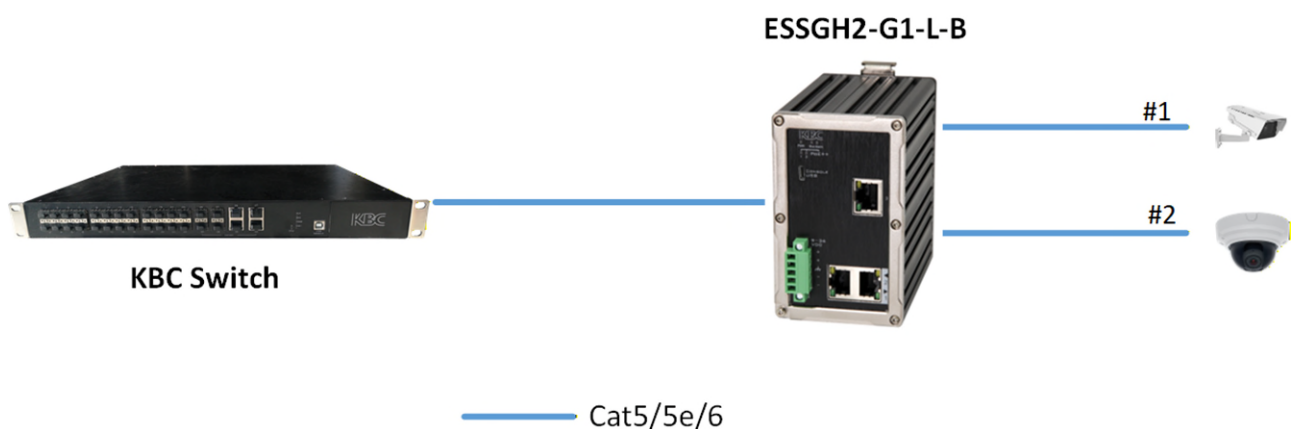
PowerPilot



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
- 3×10/100/1000Base-T(X) ports, 2 PoE++ ports and 1 non-PoE port
- Each PoE port outputs up to 90W; 180W total PoE budget
- Supports IEEE 802.3 af&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
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Ports

10/100/1000Base-T	RJ45 (3, 2 with PoE/PoE++)
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Switch Performance

Architecture	Store-and-forward
Memory Buffer	512K
Switch Capacity	10Gbps
Mac Table	1K

PoE

Standard	IEEE802.3af/at/bt
PSE Type	End-span
Power Pin Assignment	1/2(+), 3/6(-)
PoE Power Output	Each PoE port up to 90W

Power ⁽¹⁾

Redundant Power Input	9 ~ 36Vdc
Power Consumption	< 5W (without PoE)
PoE Budget	180W max.
Overload Current Protection	Yes
Reverse polarity protection	Yes

Protection

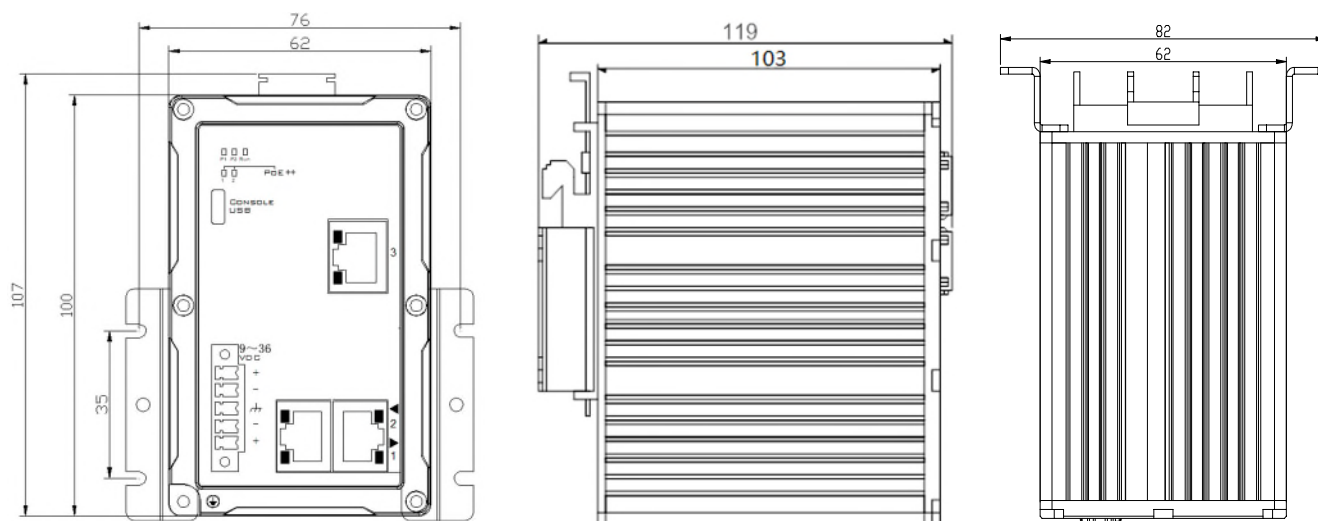
Surge	6KV, IEC61000-4-5
ESD	ESD Level 4: IEC61000-4-2
	RS Level 3: IEC61000-4-3
	EFT Level 4: IEC61000-4-4
	CS Level 3: IEC61000-4-6

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)	62mm × 103mm × 100mm
Weight	0.6kg



Order Information

ESSGH2-G1-L-B: Industrial Unmanaged Ethernet Gigabit Switch with PowerPilot™ PoE Control, 3x 10/100/1000Base-T(X) ports, 2xPoE++ Ports. Input 24VDC.

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

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