ESSG4P-PG2 Series

Self-managed Industrial Ethernet Switch with PoE+
4 Gigabit Ports, 2 SFP Gigabit SFP Ports

Product Description

The KBC ESSG4P-PG2 series is a 6-port, self-managed industrial switch with 4 of the ports supplying IEEE802.3at type POE+, Power over Ethernet. The switch is a Power Sourcing Equipment (PSE) device and is capable of providing up to 30W of power per port. The switch provides connectivity for up to four 10/100/1000Mbps twisted pair copper ports (which are automatically configured) and two Gigabit SFP ports.
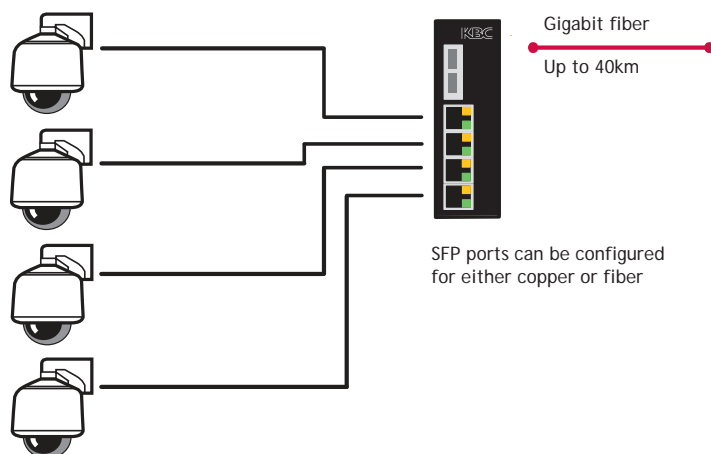
The ESSG4P-PG2-D series is designed for use in a wide range of operating temperatures in non-environmentally conditioned, industrial applications. It is available in a wall-mount or DIN rail configuration.

Product Features

- IEEE802.3at PoE+ on 4 ports @ 30W per port
- 2 x Gigabit SFP ports
- Redundant power inputs
- Power failure alarm output
- Full & half duplex operation
- MDI/MDI-X
- Automatically supports IGMP (multicasting)
- Supports daisy-chain connection
- Supports light hardware IGMP V1, V2, V3
- Supports Broadcast Storm Control
- Supports 9k bytes Jumbo Frame
- Supports Energy Efficient Ethernet IEEE803.2az

Typical System Configuration

Gigabit fiber

Up to 40km

SFP ports can be configured for either copper or fiber

IP Cameras (IEEE802.3at)

Specifications

Standards

IEEE Standard	IEEE 802.3 10BASE-T
	IEEE 802.3u 100BASE-TX/FX
	IEEE 802.3ab 1000BASE-T
	IEEE 802.3z 1000BASE-X

Switch Performance

Switching Method	Store & forward
Forward & Filtering Rate	14 880 pps (10Mbps
	148 800 pps (100Mbps)
	1 488 000 pps (1000Mbps)
Memory buffer	1Mb
Max packet length	9kbytes Jumbo frame
Address table size	2048 MAC addresses

PoE

Standard (ports 1-4)	IEEE802.3at
Power Supplied (per port)	30W max (alternative b mode)

Power

Power Input		2 x 48~57Vdc
Power Consumption	PoE in use	135W max 2.8A@48Vdc
	PoE not in use	5W max 0.1A@48Vdc
Power Supply		Supplied separately

Protection

Power Input Overload	Automatic resettable
Reverse Polarity Protection	Present

Mechanical

Dimensions (W x D x H)	148 x 120 x 31mm /
	5.83 x 4.72 x 1.22"
Weight	500g
Installation	Wall-mount / DIN rail
Casing	Metal

Environmental

Operating Temperature	-40°~+75°C / -40°~+167°F
Storage Temperature	-40°~+85°C / -40°~+185°F
Operating Humidity	5 ~ 95% non-condensing

Connectors

10/100 Electrical	4 x RJ45
SFP	2 x SFP 1000BASE-X)
Power	Terminal block

LED Indicators

Power	Power status
Ethernet (per port)	Link/Activity
SFP	Link/Activity

Approvals

EN55022 ClassA, FCC part 15 Class A	
Surge Protection:	RJ45: 1kV, Power 500V

Part Number

ESSG4P-PG2-D