data delivered

ESML6-P3 Series

Layer 2 Managed Industrial Ethernet Switch,
6 Copper & 3 SFP Ports

Product Description

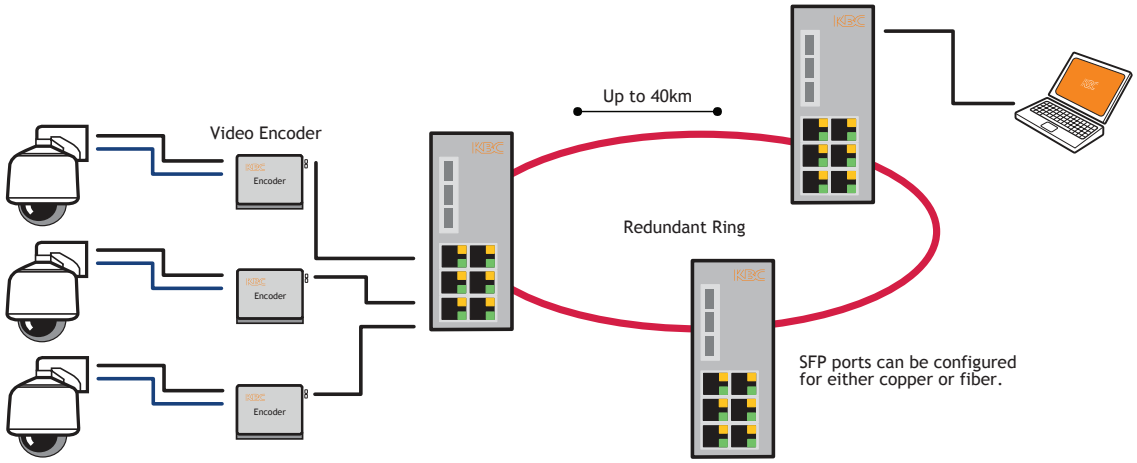
The KBC ESML6-P3 Ethernet series is a managed industrial switch designed for use in a wide range of operating temperatures in non-environmentally conditioned, industrial applications. The switch provides connectivity for up to six 10/100 Mbps twisted pair copper ports and three SFP ports. The SFP ports can be configured as 10/100/1000BASE-T(X) or 1000BASE-SX/LX/LH/ZX LC in any permutation. Redundancy is offered through DT-Ring technology that recovers cable or port failures automatically in less than 50ms. Units can be fully managed through a number of different interfaces and provide a vast range of hardware and software features ensuring ease of installation and enhancement of network performance.

The series is available in either DIN rail or wall-mount configurations.

Product Features

- Supports DT-Ring recovery, <50ms
- Supports Ring, Link, and Star Topologies
- Redundant power input
- Alarm output for power supply
- Port status indicators
- Supports QoS, VLAN, SNMP, MIB V1/V2/V3, IGMP snooping, port mirroring, port trunking, static MAC address binding
- Broadcast storm control
- IP40 protection class

Typical System Configuration



Specifications

Standards

IEEE Standard	IEEE 802.3 10BASE-T
	IEEE 802.3u 100BASE-TX & 100BASE-FX
	IEEE 802.3x Full Duplex
	IEEE 802.3z Gigabit Fiber
	IEEE 802.1AB
	IEEE 802.1d Spanning Tree
	IEEE 802.1w Rapid spanning tree
	IEEE 802.1p Class of Service
	IEEE 802.1q VLAN Tagging

Switch Performance

Switching Method	Store & Forward
Transfer Rate	148,810 pps Fast Ethernet Port
	1488100 pps Gigabit Ethernet Port
Backplane Switch Capacity	7.2 Gbps
Mac Address Table	8k
No. of VLAN	4094
No. of Priority Queues	8

Contact Closure Alarm Output

Output	SPST Relay, Normally Open
Switch Rating	120mA @ 350 Vdc

Power

Power Input	18 - 36 Vdc Dual Redundant
Power Supply[1]	Input: 100-240 Vac Output: +24 Vdc
Power Consumption	<5.6W

Mechanical

Casing	IP40 Protection
Dimensions (W x H x D)	75mm x 140mm x 123mm (2.95" x 5.51" x 4.84")
Weight	1200g
Installation	Wall-mount or DIN Rail

Environmental

Operating Temperature	-40°~+85°C / -40°~+185°F
Storage Temperature	-40°~+85°C / -40°~+185°F
Operating Humidity	0 to 95% non-condensing
Mean Time Between Failure (MTBF)	>300,000 Hours

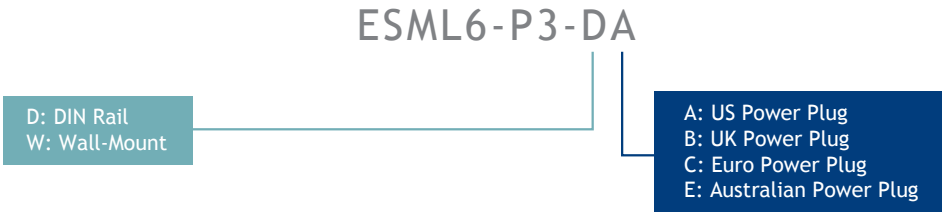
Connectors

10/100 Electrical	6 x RJ45
Contact Closure Alarm	2-way Screw block terminal
Console	1 x RJ45
Power[2]	3-way Screw block terminal (dual redundant)

Approvals

IEC61000-4-2(ESD)	±8kV Contact discharge, ±15kV Air discharge
IEC61000-4-3(RS)	10V/m (80-1000 MHz)
IEC61000-4-4(EFT)	Power line ±4kV, Data line ±2kV
IEC61000-4-5(Surge)	Power line ±4kV CM/±4kV DM Data line ±2kV
IEC61000-4-6(CS)	3V (10 kHz-150 kHz) 10V (150 kHz-80 MHz)
IEC61000-4-8 100A/m cont. (Power Frequency Magnetic Field)	1000A/m, 1s to 3s
IEC61000-4-12/18 (Damped Oscillatory Wave)	2.5kV CM, 1kV DM
IEC61000-4-10 (Damped Oscillatory)	30A/m
IEC61000-4-16 (Common Mode Conduct)	30V cont. 300V, 1s
FCC CFR47 Part 15/EN55022	Class A
IEC61000-6-2 (Industrial Standards)	
IEC61850-3 (Substations)	
IEEE1613 (Electric Power Substations)	
EN50121-4 (Railway Applications)	
Mine Safety CertificationEN50121-4 (Railway Applications)	

Part Number Configurator



1. Please select the power plug from US Standard, Euro 2 Circular, UK 3 Pin square or Australian when placing order.
2. Power lines are crimped and fitted to screw block connector in factory.