



Product Description

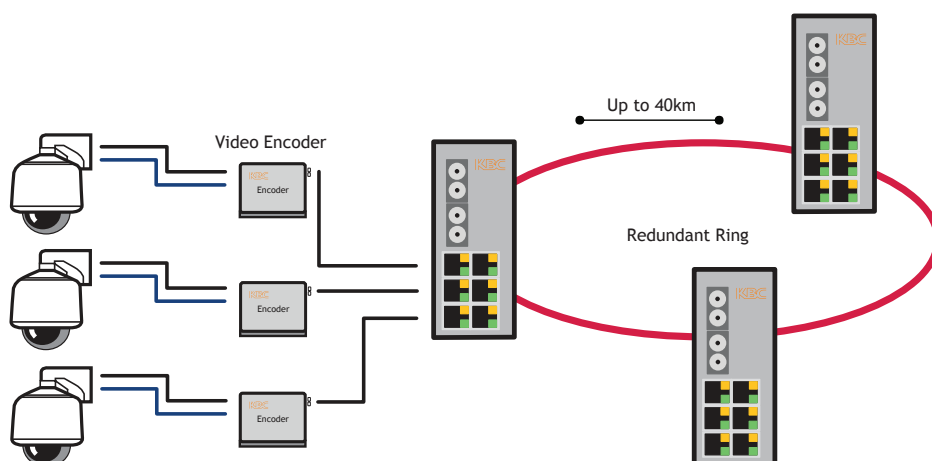
The KBC ESML6-FL2 Ethernet series is a managed industrial switch designed for use in a wide range of operating temperatures in non-environmentally conditioned, industrial applications. The switch provides connectivity for up to six 10/100 Mbps twisted pair copper ports and two multimode or singlemode 100 Mbps fiber ports. Redundancy is offered through DT-Ring technology that recovers cable or port failures automatically in less than 100ms. 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, <100ms
- 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 802.1p Class of Service
IEEE 802.1q VLAN Tagging
IEEE 802.1d Spanning Tree
Protocol

Switch Performance

Switching Method
Transfer Rate
Backplane Switch Capacity
Mac Address Table
No. of VLAN
No. of Priority Queues

Store & forward
148,810 pps
2.8 Gbps
8k
4094
8

Contact Closure Alarm Output

Output
Switch Rating

SPST Relay, normally open
120mA @ 350 Vdc

Power

Power Input
Power Supply⁽¹⁾
Power Consumption

18 - 36 Vdc
Dual redundant
Input: 100-240 Vac
Output: +24 Vdc
<6W

Mechanical

Casing
Dimensions (W x H x D)
Weight
Installation

IP40 Protection
56mm x 139mm x 120mm
2.20" x 5.47" x 4.73"
1000g
Wall-mount or DIN rail

Environmental

Operating Temperature
Storage Temperature
Operating Humidity
Mean Time Between Failure (MTBF)

-40° ~ +85° C / -40° ~ +185° F
-40° ~ +85° C / -40° ~ +185° F
0 to 95% non-condensing
>300,000 Hours

Connectors

10/100 Electrical
100BASE-FX
Contact Closure Alarm
Console
Power⁽²⁾

6 x RJ45
2 x Duplex SC
2-way Screw block terminal
1 x RJ45
3-way Screw block terminal
(dual redundant)

Approvals

IEC61000-4-2(ESD)

IEC61000-4-3(RS)
IEC61000-4-4(EFT)

IEC61000-4-5(Surge)

IEC61000-4-6(CS)

IEC61000-4-8
(Power Frequency Magnetic Field)
IEC61000-4-12/18 2.5kV CM, 1kV DM
(Damped Oscillatory Wave)
IEC61000-4-10 (Damped Oscillatory)
IEC61000-4-16
(Common Mode Conduct)
FCC CFR47 Part 15/EN55022
IEC61000-6-2 (Industrial Standards)
IEC61850-3 (Substations)
IEEE1613 (Electric Power Substations)
EN50121-4 (Railway Applications)

±8kV Contact discharge,
±15kV Air discharge
10V/m (80-1000 MHz)
Power line ±4kV,
Data line ±2kV
Power line ±4kV CM/±4kV DM
Data line ±2kV
3V (10 kHz-150 kHz)
10V (150 kHz-80 MHz)
100A/m cont.
1000A/m, 1s to 3s

30A/m
30V cont. 300V, 1s

Class A

Part Number Configurator

ESML6-FL2-S2-DA

M: Multimode
S: Singlemode

A: US Power Plug
B: UK Power Plug
C: Euro Power Plug
E: Australian Power Plug

D: DIN Rail
W: Wall-Mount

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.

Due to ongoing technological improvements, product specifications are subject to change without notice. KBC is not liable for any errors, omissions or changes of any description of the goods contained herein. This information is for the sole purpose of identifying the products, and KBC makes no warranty that the products conform to any description contained herein. Do not rely solely on any representations, statements, or assertions concerning these Products contained herein.