

ESML3-FL2-D4 Series

Layer 2 Managed Industrial Ethernet Switch 3 Copper, 2 Fiber & 4 Serial Data Ports





Product Description

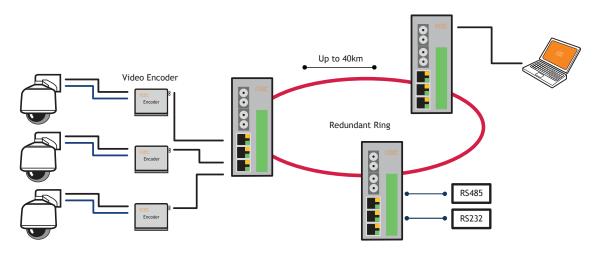
The KBC ESML3-FL2-D4 Ethernet series is a managed industrial switch designed for use in a wide range of operating temperatures in non-environmentally conditioned, industrial applications. The switch provides connectivity for up to three 10/100 Mbps twisted pair copper ports, two multimode or singlemode 100 Mbps fiber ports and four serial data (RS232/RS485) ports. 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

- Integrated 4 port terminal server
- Supports DT-Ring recovery, <50ms
- 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

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 IEEE 802.1w Rapid Spanning

Switch Performance

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

Data Formats Two Way Channels Data Rate

Contact Closure Alarm Output

Output Switch Rating

Power Power Input

Power Supply⁽¹⁾

Power Consumption

Tree Protocol

Store & Forward 148,810 pps 8.8 Gbps 8k 4094 8

RS232, RS485 (2W)

50 - 230.4 kbps (9.6 kbps default)

SPST Relay, normally open 120mA @ 350 Vdc

18 - 36 Vdc Dual redundant Input: 100~240 Vac Output: +24 Vdc

<7W

Environmental

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

Connectors

10/100 Electrical 100BASE-FX Data (4 ports) Contact Closure Alarm Console Power⁽²⁾

Annrovals

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

IEC61000-4-10 (Damped Oscillatory) IEC61000-4-16 30V cont. (Common Mode Conduct) FCC CFR47 Part 15/EN55022 IEC61000-6-2 (Industrial Standards) IEC61850-3 (Substations) IEEE1613 (Electric Power Substations) EN50121-4 (Railway Applications)

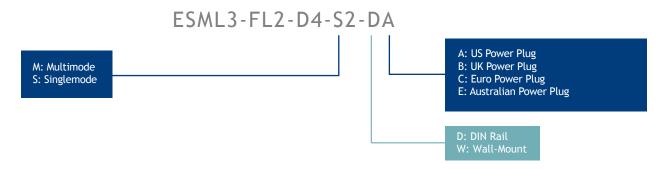
-40°~+85°C / -40°~+185°F -40°~+85°C / -40°~+185°F 0 to 95% non-condensing >300,000 Hours

3 x RJ45 2 x Duplex SC 20-way Screw block terminal 2-way Screw block terminal 1 x RJ45 3-way Screw block terminal (dual redundant)

±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 2.5kV CM, 1kV DM (Damped Oscillatory Wave) 30A/m 300V, 1s

Class A

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.

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