



## Product Description

The KBC ESUL8 Ethernet series is an entry level, unmanaged 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 eight 10/100Mbps twisted pair copper ports which are automatically configured and with plug-and-play design provides ease and speed of installation.

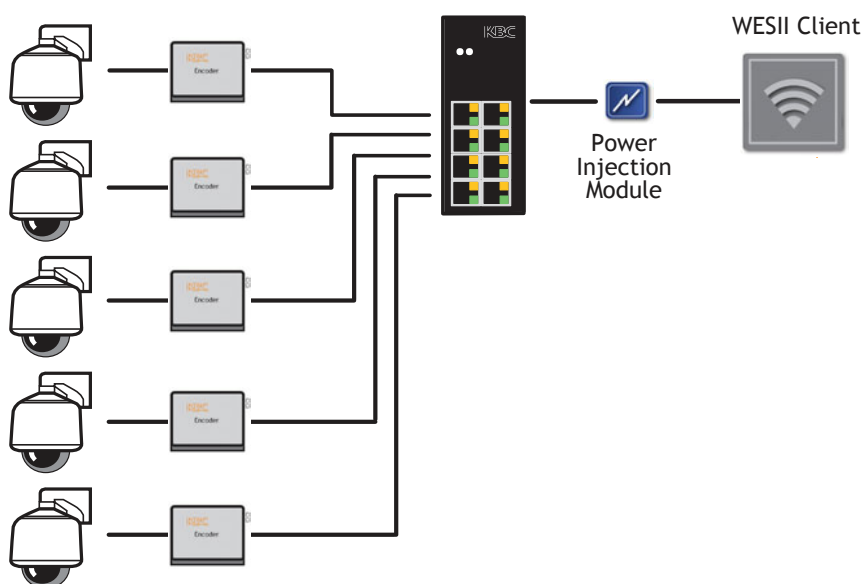
The series is available in either DIN rail or wall-mount configuration.

## Product Features

- Very low power consumption
- Redundant, broad-range power supply
- Full & half duplex operation
- MDI/MDI-X
- IP40 protection class



## Typical System Configuration



# Specifications

## Standards

IEEE Standard

IEEE 802.3i 10BASE-T  
IEEE 802.3u 100BASE-TX  
& 100BASE-FX  
IEEE 802.3x Full Duplex

## Switch Performance

Switching Method  
Transfer Rate

Store & forward  
14,881 pps Ethernet port  
148,810 pps Fast Ethernet  
port

Backplane Switch Capacity  
Mac Address Table  
Switching Delay

3.6Gbps  
8k  
<5µs

## Power

Power Input  
  
Power Supply<sup>(1)</sup>  
  
Power Consumption

18-72Vdc / 13-51Vac  
(redundant)  
Input: 100-240 Vac  
Output: +24Vdc  
3.5W

## Mechanical

Casing  
Dimensions (W x H x D)  
  
Weight  
Installation

IP40 protection  
53.5mm x 135mm x 106.5m  
(2.11" x 5.31" x 4.19")  
760g / 1.676lbs  
Wall-mount or DIN rail

## Environmental

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

-40° ~ +74° C / -40° ~ +165° F  
-40° ~ +74° C / -40° ~ +165° F  
5 to 95% non-condensing  
>397,000 hours

## Connectors

10/100 Electrical  
Power<sup>(2)</sup>

5 x RJ45  
6-way screw block terminal

## Approvals

EMI:  
FCC CFR47 Part 15/EN55022  
EMS:  
IEC61000-4-2 (ESD)

Class A

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

±8kV Contact Discharge,  
±15kV Air Discharge  
10V/m (80-2000MHz)  
Power port ±4kV  
Data port ±2kV  
Power port ±4kV/CM; ±2kV/DM  
Data port ±2kV  
3V (10KHz-150kHz)  
10V (150KHz-80MHz)  
30V(cont.); 300V(1s)

IEC61000-4-5(Surge)

IEC61000-4-6(CS)

IEC61000-4-16  
(Common Mode Conduction)

Machinery:  
IEC68-2-6(vibration)  
IEC68-2-27(shock)  
IEC68-2-32(free fall)  
Industry:  
IEC61000-6-2

Railway:  
EN50155  
EN50121-4

# Part Number Configurator

ESUL8-DCA

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

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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