

## SW-115

## EMBEDDED INDUSTRIAL 5 PORT GIGABIT ETHERNET SWITCH

- 5 Gigabit Ethernet ports
- Wide voltage input range: +5V to +30V DC - can be powered by a variety of sources
- Industrial temperature range: -40°C to +80°C/-40°F to +176°F - works in extreme conditions
- Redundant dual power inputs - reduces risk of power outage
- Mounting holes in PCB



+5 to +30 Volt power input enables the device to be run from a standard car battery - ideal for in vehicle applications



Ideal for mounting within passenger information terminals or kiosks



Embedded format, takes up minimal space, with mounting holes connected to Functional Earth



# SW-115

## EMBEDDED INDUSTRIAL 5 PORT GIGABIT ETHERNET SWITCH

No software needed: Simply plug in any ethernet cable

-40°C to +80°C/-40°F to +176°F temperature range

All Ethernet ports are Auto MDI/MDIX supporting straight through or crossover Ethernet cables

Ready for embedded applications

Automatic detection of data transmission speed:  
10 or 100 or 1000 Mbps

Power consumption is optimised based on the status of the link device



Easy Wire Removable screw terminal block

Dual redundant power input:  
+5VDC to +30VDC

### Connectors

Screw Terminals	3.5mm pitch, #22 - #14, 0.5mm <sup>2</sup> -2.5mm <sup>2</sup> pin power supply
Wire Thickness	0.150 inch, 3.81mm, 20 pins, 12+8 screw terminals, #26 - #16 AWG, 0.14mm <sup>2</sup> -1.3mm <sup>2</sup>

### Power Supply

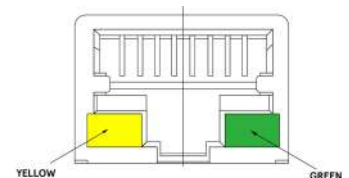
Power Consumption	3.6W Max: 720mA@+5VDC/120mA@+30VDC
Power Supply input	Unregulated +5V to +30Volts DC, reverse polarity protection
Isolation	1500VRMS magnetic isolation from Ethernet

### Environmental

Operating Temperature	-40°C to +80°C/-40°F to +176°F
Storage Temperature	-40°C to +80°C/-40°F to +176°F
Ambient Relative Humidity	5 to 95% (non-condensing)

### Magjack LED Information

Link/Activity LED	Solid green	Connection established
	Flashing Green	Data communication
Speed LED	Yellow	1 Gbs
	Green	100Mbps
	Both	10Mbps

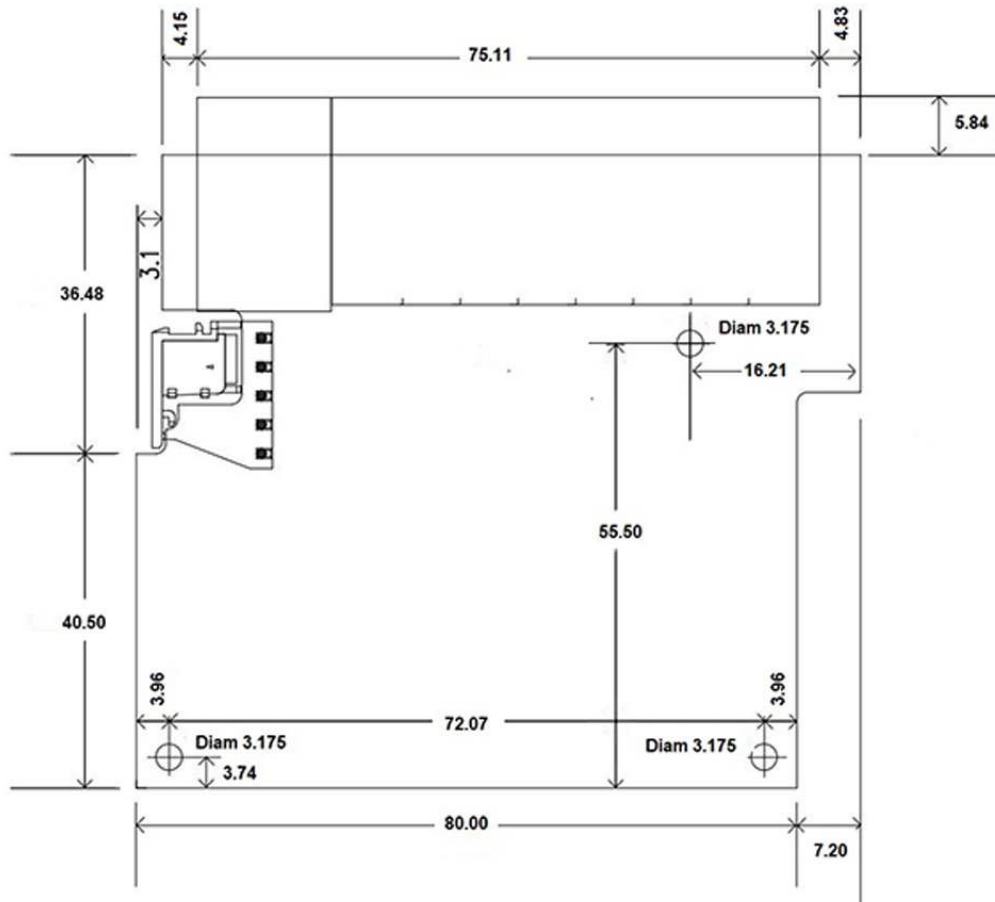


### Ethernet

Ethernet Port	5 x RJ45 jack, 10/100/1000Mbps autosensing, crossover auto sensing (Auto MDIX)
Protection	1,500 Volts magnetic isolation between ports
Housing	This device is uncased for embedded applications The mounting holes are connected to Functional Earth

**SW-115**
**EMBEDDED INDUSTRIAL 5 PORT GIGABIT ETHERNET SWITCH**

All Dimensions in mm


**Power Terminal Pin Outs**

PIN	FUNCTION
1	-V
2	+VA
3	+VB
4	-V
5	Functional Earth

**Ethernet Ports x5 Pin Outs**

PIN	FUNCTION
1	TxRxA+
2	TxRxA-
3	TxRxB+
4	TxRxC+
5	TxRxC-
6	TxRxB-
7	TxRxD+
8	TxRxD-

**Lifetime Warranty and Support:**

We can help with every aspect of your project, from getting you up and running to custom application.

## SW-115

## EMBEDDED INDUSTRIAL 5 PORT GIGABIT ETHERNET SWITCH

### Packaging Information

Packaging	Quick Start Guide
Device	Embedded Industrial 5 Port Gigabit Ethernet Switch
Packaged Weight	0.088 kg, 3.10 ounces
Packaged Dims	160x135x49 mm, 6.3x5.3x1.9 inches
GTIN Universal Code	837324004304

### Approvals

Industry Approvals	Microsoft Certified Gold Partner, WEEE, RoHS, AEO (C-TPAT), CE, UKCA, METL Complies with UL62368-1
--------------------	--

### Product Support

Warranty	Lifetime - online registration required
Support	Lifetime web, email and phone support from fully qualified, friendly staff who work in and alongside the Product Development Team

### Additional Information

OEM option	Available for bulk buy OEM
Made In	Manufactured in Great Britain (GB) by Brainboxes - Winner 2005 European Electronics Industry Awards 'Manufacturer of the Year'
Customisable	Brainboxes operate a 'Perfect Fit Custom Design' policy for volume users More info:sales@brainboxes.com



#### PW-600

Power supply with connectors for UK, USA, EU and AUS mains socket. 'Tails' are suitable for connecting to screw terminal blocks.



#### PW-650

Power supply with USB connector and prewired screw terminal block. Suitable for use with 5V USB ports.



#### SW Range

Switch products available in a range of formats and specifications.

[www.brainboxes.com](http://www.brainboxes.com)