# SW-125 Embedded Industrial 5 Port PoE+ Ethernet Switch

5 Port (Ports 1-4 PoE+) Unmanaged 10/100 Ethernet Switch

- 5 port PoE+ 10/100 Fast Ethernet device
- Ports 1-4 PoE+ capable
- Fully compliant to IEEE 802.3af/at
- PoE Power Budget: 90W @ 70°C
- Industrial temp range: -40°C to +70°C
- Redundant dual power inputs: +44V to +57V DC
- Compact, embeddable design
- Allows power and data to be combined on the same Ethernet cable
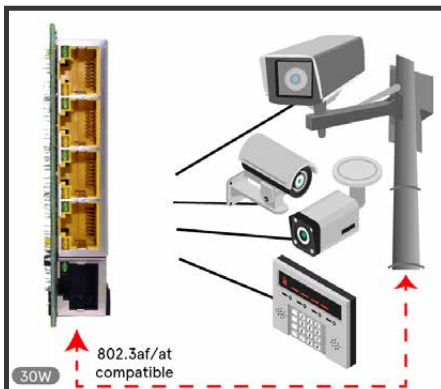
Send power and data to remote CCTV cameras, PoE telephones, PoE Wifi access points, NVRs, and more

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

Provides additional Ethernet ports for your custom application

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90W PoE Power Budget shared between 4 Ethernet Ports

-40ºC to +70ºC/-40ºF to +158ºF temperature range

Ports 1-4 IEEE 802.3af/ at compliant: deliver up to 30W to each port (backwards compatible)

Ready for embedded applications

Automatic detection of data transmission speed: 10 or 100 MBps

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

2k Byte maximum packet size – improves the efficiency of bulk data transfer and system performance

Easy Wire Removable screw terminal block

Dual redundant power input: +44VDC to +57VDC

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

Power Supply	
Power Consumption	4 Watts Max : 91mAmps@+44VDC/70mAmps@+57VDC
PoE Power Budget	90W @ 70ºC
Power Supply input	Unregulated +44V to +57Volts DC, reverse polarity protection
Isolation	1500VRMS Magnetic isolation from Ethernet

Environmental	
Operating Temperature	-40ºC to +70ºC/-40ºF to +158ºF
Storage Temperature	-40ºC to +70ºC/-40ºF to +158ºF
Ambient Relative Humidity	5 to 95% (non-condensing)

Magjack LED Information		
Link/Activity LED	Solid green	Connection established
	Flashing Green	Data communication
PoE Power LED (Ports 1-4)	Solid Yellow	PoE Power ON
	Flashing Yellow	Power Warning

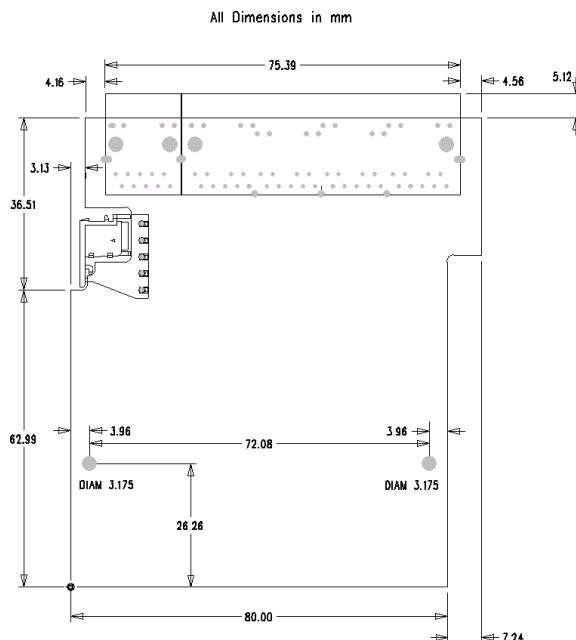| Ethernet	
Ethernet Port	5 x RJ45 jack, 10/100Mhz autosensing, crossover auto sensing (Auto MDIX)
Protection	1,500 Volts magnetic isolation between ports
Housing	This device is uncased for embedded applications The mounting holes are connected to Functional Earth

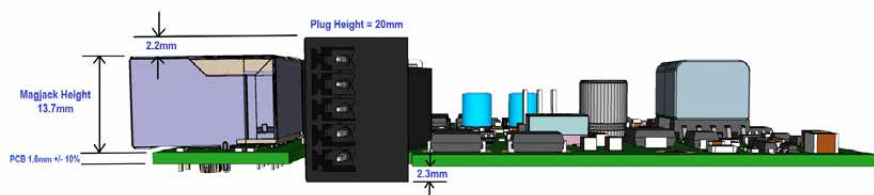# SW-125   Embedded Industrial 5 Port PoE+ Ethernet Switch

All Dimensions in mm

Ethernet Ports x4 Pin Outs
PoE Pinout 1/2(V+) 3/6(V-) Endspan Mode A

PIN	FUNCTION	
1	Tx+	DC+
2	Tx-	DC+
3	Rx+	DC-
4	unused	
5	unused	
6	TRx-	DC-
7	unused	
8	unused	

Power Terminal Pin Outs

PIN	FUNCTION
1	-V
2	+VA
3	+VB
4	-V

5 position 3.5mm pitch socket compatible with Euroblock pluggable terminal block connectors

5 position 3.5mm pitch pluggable terminal block included

Position 1	1	2	3 OR	4	5
	-V	+VA	+VB	-V	⏚

3.5mm   14.0mm   17.5mm

Plug Height = 20mm
2.2mm
Magjack Height 13.7mm
PCB 1.6mm +/- 10%
2.3mm
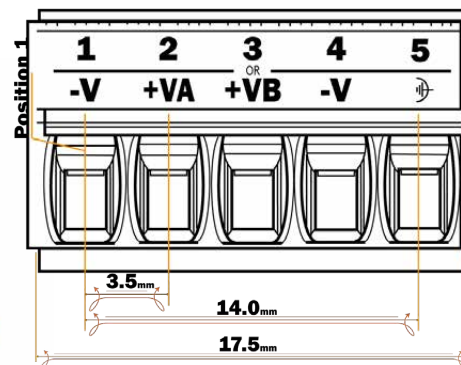
Lifetime Warranty and Support:
We can help with every aspect of your project, from getting you up and running to custom application.

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Product Information	
Product Weight	0.076 kg, 2.68 ounces
Product Dimensions	100x90x60 mm, 3.9x3.5x2.4 inches

Packaging Information	
Packaging	Quick Start Guide, Device
Packaged Weight	0.226 kg, 7.97 ounces
Packaged Dims	160x135x49 mm, 6.3x5.3x1.9 inches
GTIN Universal Code	837324004588

Industry Approvals	METLABS E112324 complies with UL62368-1, CSA C22.2, No. 62368-1 Microsoft Certified Gold Partner, WEEE, RoHS, AEO (C-TPAT), CE, UKCA
HTS	8517620000
ECCN	5A991.b
CAGE	8QCY6

Warranty	Lifetime - online registration required
Support	Lifetime Web, Email & Phone Support from fully qualified, friendly staff who work in and alongside the Product Development Team

Standards	ISO9001, ISO14001
OEM option	Available for bulk buy OEM
COO (Country of Origin)	GB
Made In	Manufactured in GB by Brainboxes
Customisable	Brainboxes operate a 'Perfect Fit Custom Design' policy for volume users

PW-323
PoE Splitter

PW-301
DIN Rail Power Supply

SW Range
Switch products available in a range of formats and specifications.