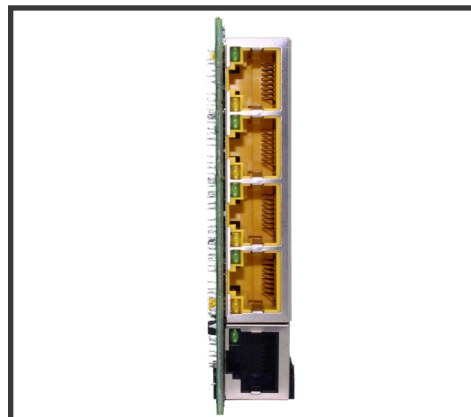# SW-125   Embedded Industrial 5 Port PoE+ Ethernet Switch

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 between all 4 PoE ports simultaneously
- 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

IP20 | 5 | +70°C / -40°C | DIN | PoE+ 30W | PoE 15W
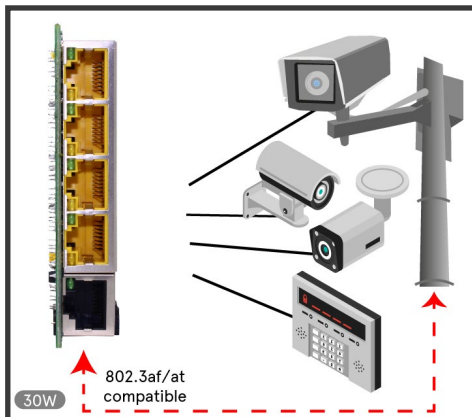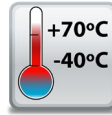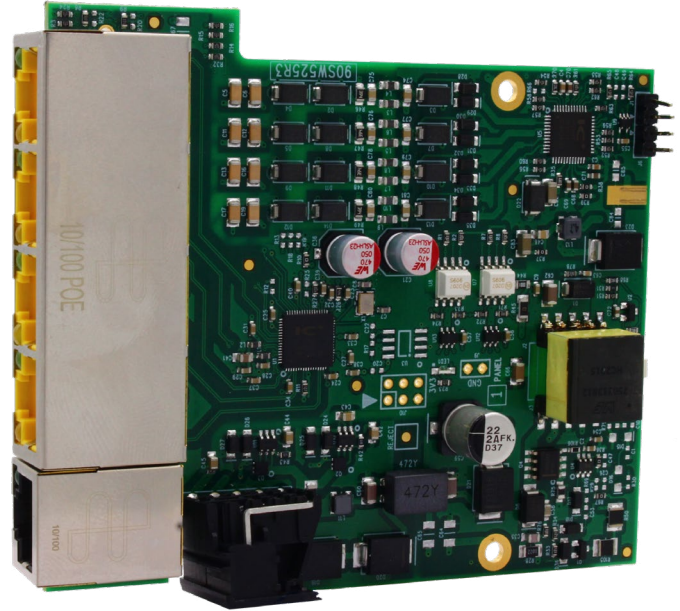
Send power and data to remote CCTV cameras, PoE telephones, PoE Wifi access points, NVRs, and more

802.3af/at compatible
30W

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

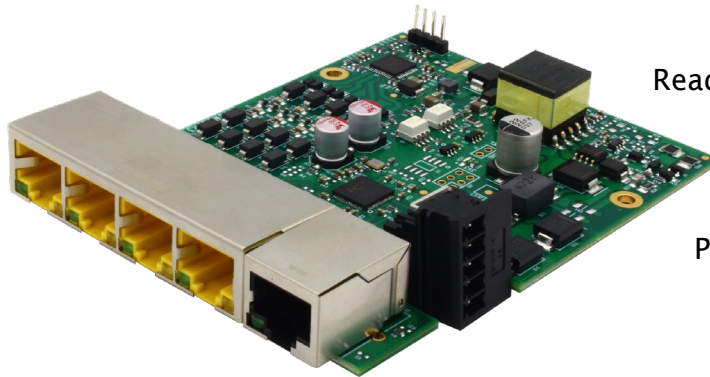Provides additional Ethernet ports for your custom application

# SW-125

## Embedded Industrial 5 Port PoE+ Ethernet Switch

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 | Ports 1-4 IEEE 802.3af/at compliant: deliver up to 30W to each port (backwards compatible)<br>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<br>The mounting holes are connected to Functional Earth |

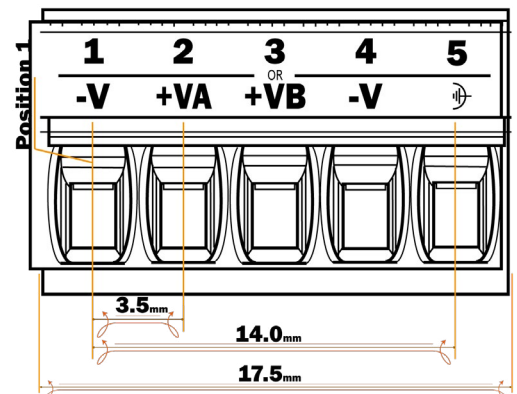# SW-125     Embedded Industrial 5 Port PoE+ Ethernet Switch

All Dimensions in mm
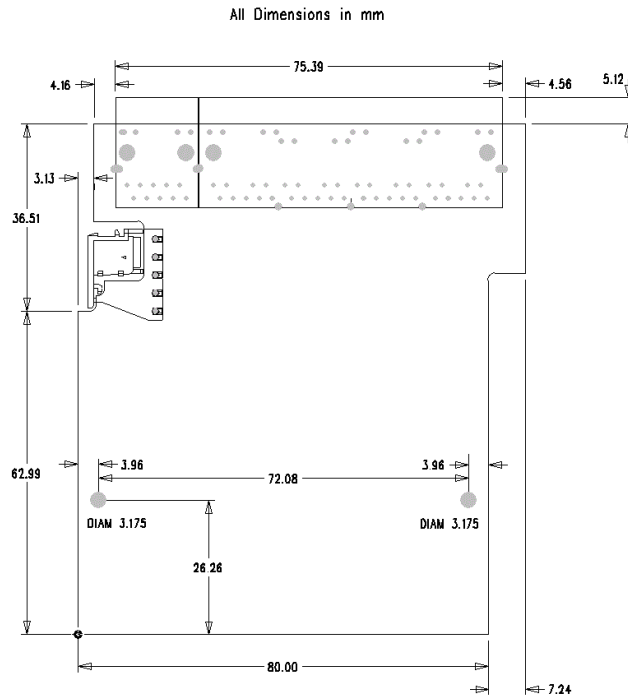


## Ethernet Ports x4 Pin Outs
### PoE Pinout 1/2(V+) 3/6(V-) Endspan Mode A

| 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 pluggable terminal block included

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



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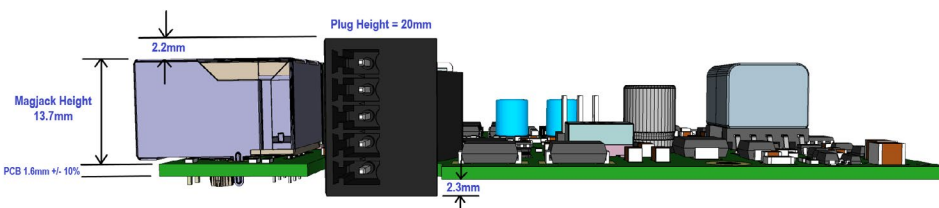


## Lifetime Warranty and Support:
We can help with every aspect of your project, from getting you up and running to custom application.

# SW-125

## Embedded Industrial 5 Port PoE+ Ethernet Switch

### 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

| | |
|---|---|
| | Microsoft Certified Gold Partner, WEEE, RoHS, AEO (C-TPAT), CE, UKCA, METL Complies with UL62368-1 |
| 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 More info:sales@brainboxes.com |



PW-323
PoE Splitter
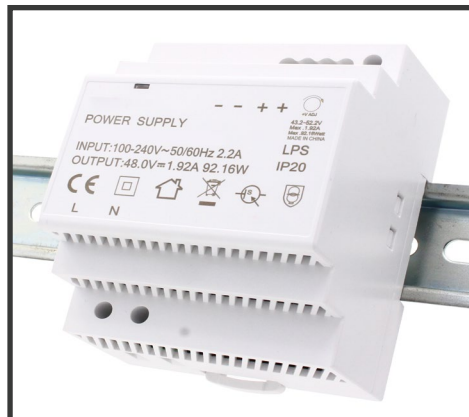


PW-301
DIN Rail Power Supply



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