# brainboxes

SW-525   Industrial 5 Port PoE+ 10/100 Ethernet Switch

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

- 5 port PoE+ 10/100 Fast Ethernet device
- Ports 1-4 PoE+ capable
- Fully compliant to IEEE 802.3af/at
- PoE Power Budget: 90W @ 70ºC
- Industrial temp range: -40ºC to +70ºC
- Redundant dual power inputs: +44V to +57V DC
- Compact design with integral DIN mount
- Allows power and data to be combined on the same Ethernet cable

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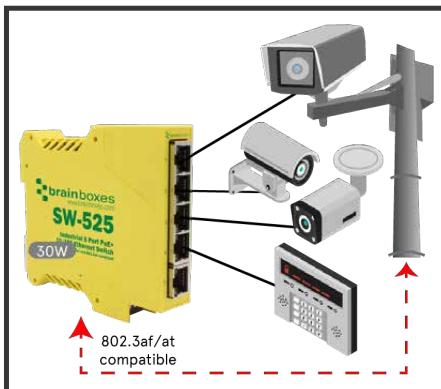
Send power and data to remote CCTV cameras, PoE telephones, PoE Wifi access points, NVRs, and more

802.3af/at compatible

Non conducting polyamide casing with removable numbered power terminal for easy wiring

Integral DIN mount and slim design takes up minimal cabinet space

CE UKCA RoHS 2002/95/EC AEO UK Authorised Economic Operator MADE IN BRITAIN GLOBAL ACCREDITATIONS MET c us E112324 Complies with UL63268-1 CSA C22.2 No. 63268-1 LIFETIME WARRANTY LIFETIME SUPPORT nqa ISO 9001:2015 Registered Quality Management UKAS MANAGEMENT SYSTEMS 015 nqa ISO 14001:2015 Registered Environment Management UKAS MANAGEMENT SYSTEMS 015

SW-525

Industrial 5 Port PoE+ 10/100 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)

Non-conducting polyamide case

Integral DIN mount with ground

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	IP-20 rated non-conducting polyamide case

SW-525

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88mm

99mm

11mm

115mm

23mm

Ethernet Ports
Yellow: PoE
Black: Non-PoE
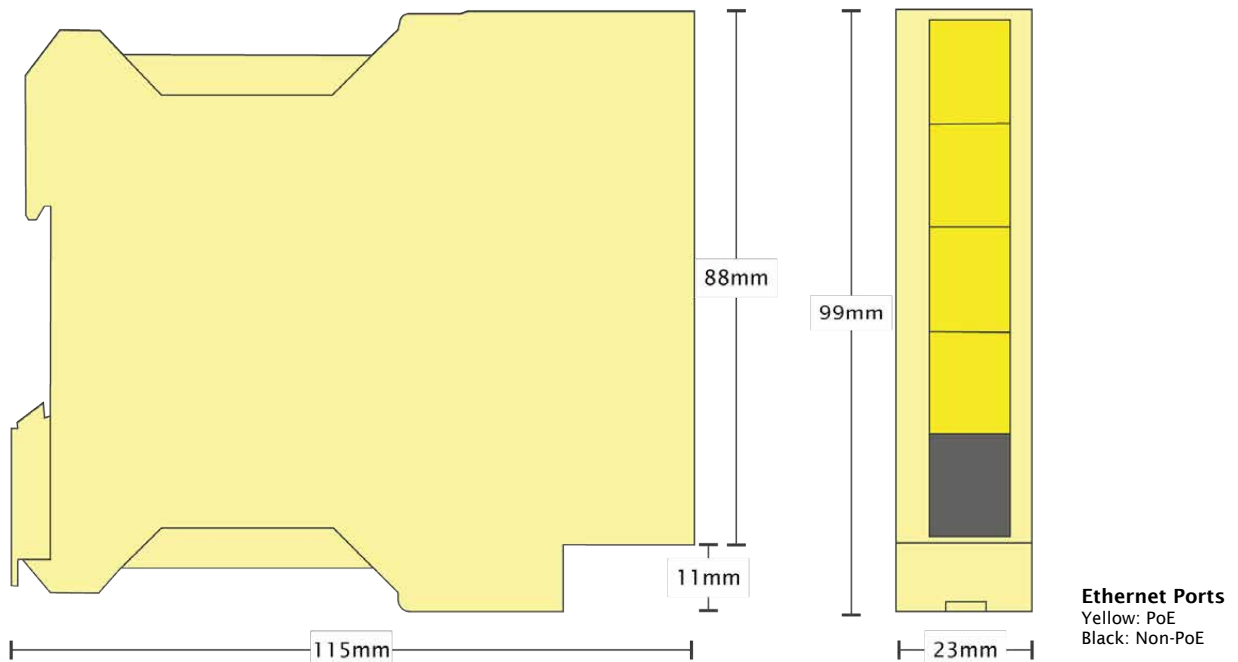
Ethernet Ports x4 Pin Outs

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	Rx-	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

Length 76mm

Aperture Length 14mm

Width 23mm

Aperture Width 20mm

Terminal Block Slot 16.5mm

Position 1

1	2	3 OR	4	5
-V	+VA	+VB	-V	⏚

3.5mm

14.0mm

17.5mm
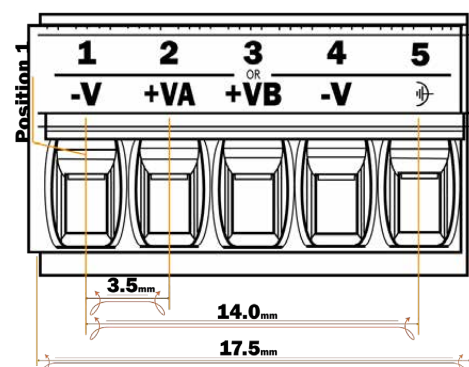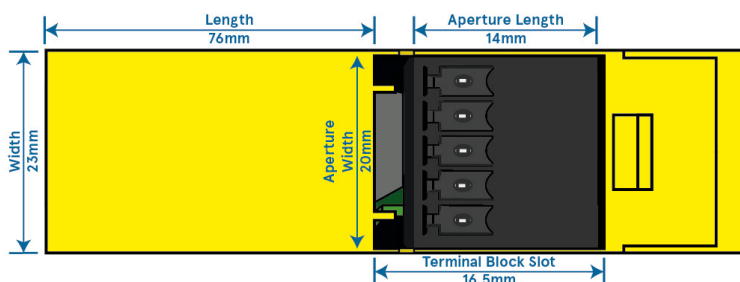
Lifetime Warranty and Support:

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	0.124 kg, 4.37 ounces
Product Dimensions	120x100x10 mm, 4.7x3.9x0.4 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	837324004533

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.