

## **SW-005 Industrial Unmanaged Ethernet Switch 5 Ports**

# SW-005

- 5 Port Ethernet Switch
- Power inputs: +5V to +30V DC
- Compact design
- No software required
- Simply plug in and connect



### Understanding Switches

- A switch, performs all of the same basic tasks as a hub. The difference is that when a PC on the network needs to communicate with another PC, the switch uses a set of internal logic circuits to establish a dedicated, logical path between the two PCs. This means that the two PCs are free to communicate with each other, without having to worry about collisions.
- Because of the way that switches work, they can establish parallel communications paths.
- Switches control the flow of network traffic based on the address information in each packet. A switch learns which devices are connected to its ports (by monitoring the packets it receives), and then forwards on packets to the appropriate port only. This allows simultaneous communication across the switch, improving bandwidth.
- This switching operation reduces the amount of unnecessary traffic that would have occurred if the same information had been sent from every port (as with a hub).



## Brainboxes' Easy Wire Feature:

Removable screw terminal blocks makes wiring to power supply easier and quicker.



## Wide Range Input Power Supply:

+5VDC to +30VDC accommodates variation in the +24VDC factory floor and allows alternative power sources, such as any computer USB port.



## HP Auto MDI/MDIX crossover support

Auto-MDI/MDIX eliminates the need for cross-over cable thus reducing installation costs. All 5 Ethernet ports are Auto MDIX and so straight through or crossover Ethernet cables can be used to connect to your Ethernet devices. Easy to use.



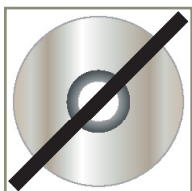
2k Byte maximum packet size – improves the efficiency of bulk data transfer and system performance

Automatic detection of data transmission speed: 10 or 100 MBps



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

Energy detect power down for when the cable is not plugged in and power down/slow oscillator mode when the device is not in use.



## No software needed:

Simply plug any ethernet cable into one of the four Ethernet ports on the device to connect it.



## Lifetime Warranty and Support:

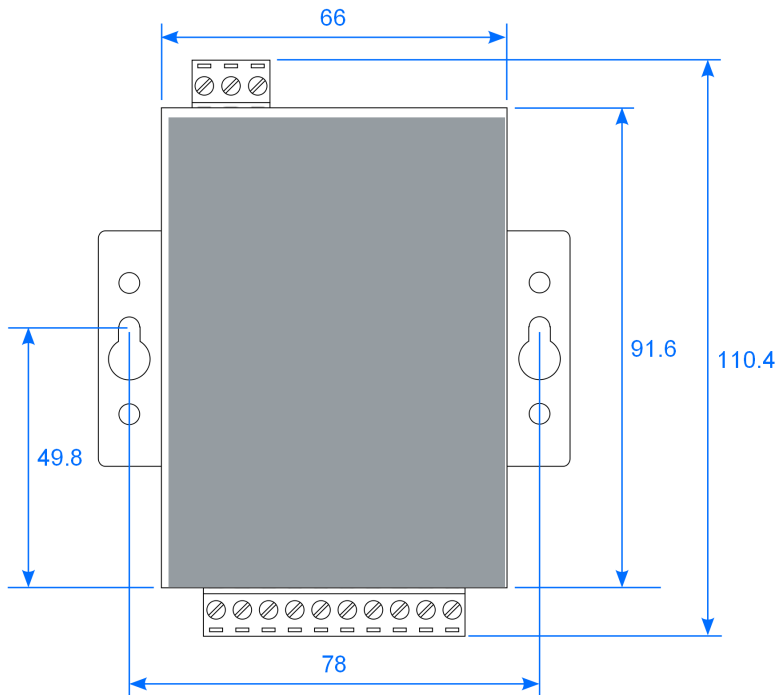
We can help with every aspect of your project, from getting you up and running to custom application.

# SW-005 Unmanaged Ethernet Switch

## Housing

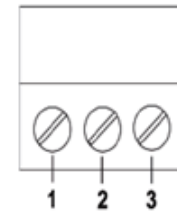
IP-30 rated non-conducting polyamide case with integrated DIN rail mount

CASE DIMENSIONS - All dimensions in mm



## Power Terminal Pin Outs

PIN	FUNCTION
1	V+ Power
2	V- Power
3	Earth/Chassis Ground



## Ethernet Ports x4 Pin Outs

PIN	FUNCTION
1	RD+ / TD+
2	RD- / TD-
3	TD+ / RD+
4	NC
5	NC
6	TD- / RD-
7	NC
8	NC

## 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 1.1 Watts Max : 220 mAmps@+5VDC/36mAmps@+30VDC  
 Power Supply input unregulated +5V to +30Volts DC, reverse polarity protection  
 Isolation 1500VRMS Magnetic isolation from Ethernet

## Environmental

Operating Temperature -30°C to +80°C  
 Storage Temperature -40°C to +85°C  
 Ambient Relative Humidity 5 to 95% (non-condensing)

## Magjack LED Information

Link/Activity LED	Solid green	Connection established
	Flashing Green	Data communication
Speed LED	Green	100Base-Tx
	Unlit	10Base-T

## Ethernet

Ethernet Port 5 x RJ45 jack, 10/100Mhz autosensing, crossover auto sensing (Auto MDIX)  
 Protection 1,500Volts magnetic isolation between I/O ports and network

# SW-005 Unmanaged Ethernet Switch

## Packaging Information

Packaging	Quick Start Guide
Device	Ethernet Switch 5 port
Packaged Weight	0.168 kg, 0.37pounds
Packaged Dims	115(l)x 115(w) x 50(h) mm, 4.5(l) x 4.5(w) x 2.0(h) inches
GTIN Universal Code	8373

## Approvals

Industry Approvals	Microsoft Certified Gold Partner, WEEE, RoHS, AEO (C-TPAT)
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## 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 the UK 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

## Optional Accessory Items

### PW-600 Global Power supply



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