SW-105   Embedded 5 Port Ethernet Switch

5 Port Unmanaged Ethernet Switch 10/100

- 5 Port 10/100 Mbs Ethernet Switch
- Redundant dual power inputs: +5V to +30V DC
- No software required - Simply plug in and connect
- Industrial temperature range
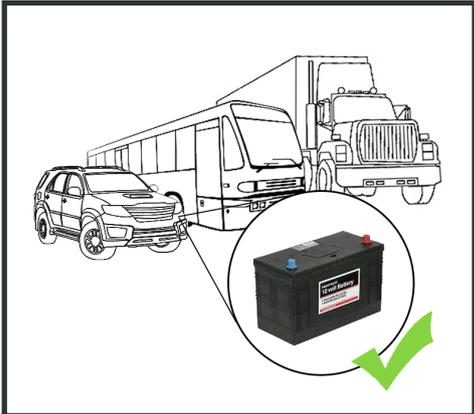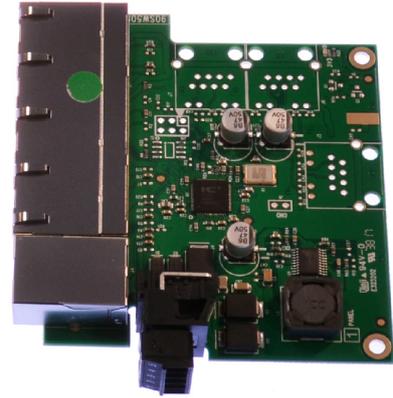
+5 to +30 Volt Power Input enables the device to be run from a standard car battery - ideal for in vehicle applications

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

Provides additional Ethernet ports for your custom application

SW-105   Embedded 5 Port Ethernet Switch 10/100

No software needed: Simply plug in any ethernet cable

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

Automatic detection of data transmission speed: 10 or 100 MBps

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

-40ºC to +80ºC/-40ºF to +176ºF temperature range

Ready for embedded applications

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

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

Easy Wire Removable screw terminal block

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	1.35 Watts Max : 260 mAmps@+5VDC/45mAmps@+30VDC
Power Supply input	Unregulated +5V to +30Volts DC, reverse polarity protection
Isolation	1500VRMS Magnetic isolation from Ethernet

Environmental	
Operating Temperature	-40ºC to +80ºC/-40ºF to +176ºF
Storage Temperature	-40ºC to +80ºC/-40ºF to +176ºF
Ambient Relative Humidity	5 to 95% (non-condensing)

| Magjack LED Information		
Link/Activity LED	Solid green	Connection established
	Flashing Green	Data communication

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-105

Embedded 5 Port Ethernet Switch 10/100

All Dimensions in mm

Plug Height = 20mm
2.6mm
Magjack Height 13.5mm
PCB 1.6mm +/- 10%
2.3mm
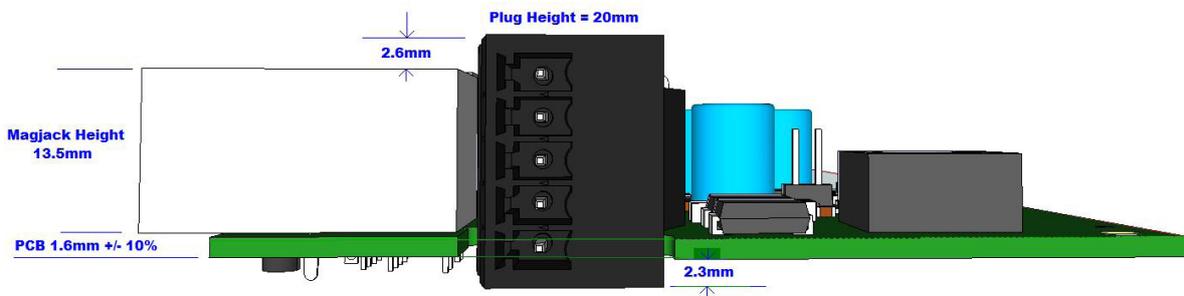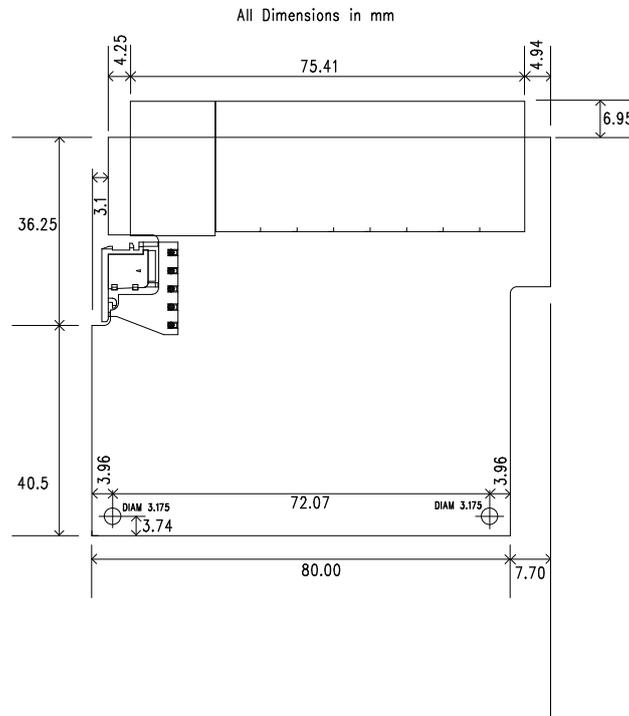
Power Terminal Pin Outs

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

Ethernet Ports x5 Pin Outs

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

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

SW-105

Embedded 5 Port Ethernet Switch 10/100

Packaging Information	
Packaging	Quick Start Guide
Device	Ethernet Switch 5 port
Packaged Weight	0.088 kg, 3.10 ounces
Packaged Dims	160x135x49 mm, 6.3x5.3x1.9 inches
GTIN Universal Code	837324004168

Approvals	
Industry Approvals	Microsoft Certified Gold Partner, WEEE, RoHS, AEO (C-TPAT), CE

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

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