

# ES-246 ETHERNET TO SERIAL DEVICE SERVER

## Ethernet 1 Port RS232

CONNECT, CONFIGURE, CONTROL YOUR SERIAL DEVICES

### Features

- 1 port RS232
- Max baud rate 230,400
- 10/100Base TX Ethernet port
- User friendly interface, simple to use, powerful in operation
- Web configuration and RFC2217 compliant interface for non-Windows users
- IP-30 rated enclosure
- LED status indication
- Optional DIN rail mounting kit
- Serial Port Tunneling (individually configurable) allows serial cable replacement over any distance, no software required
- Power supply included (power input 5-30V DC)
- Simple operation for each and every operating system!



### Description

Ethernet to Serial device server providing access to one RS232 serial port. Data transfer rates up to 230,400 baud rates, coupled with 1Mbit/s line drivers deliver uncompromising performance. Our ES range provides simple instant networked serial ports. A web interface allows secure configuration and control of the serial ports over a local network or the internet using any browser. For Windows our in-house designed (32 bit and 64 bit) driver gives you local COM ports, retaining existing software applications and allowing you to connect across your network to remote devices just as if they were attached locally. Serial Port Tunneling (individually configurable) allows serial cable replacement over any distance, no software required. You can access the device via TCP/IP sockets from any networked device like an Android tablet, PC or phone. On Windows OS TCP/IP sockets are handled by the Winsock API, this will differ on other OSs.

**Windows Users** - Our software drivers gives you local COM ports, allowing you to retain your existing software applications and connect to your devices over the network. COM Port can be assigned from COM1 to COM255 and the Brainboxes Ethernet to serial device remembers your COM Port assignment on reboots.

**Web Interface Users (Linux/Apple OS/Android)** - Alternatively access the device via TCP/IP socket from any networked device. Configure options via web interface.

Extend your reach! Remote serial devices with local control. With Brainboxes industry renowned Lifetime Warranty and Lifetime Support!

### Example Application



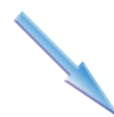
Industrial PC



WWW

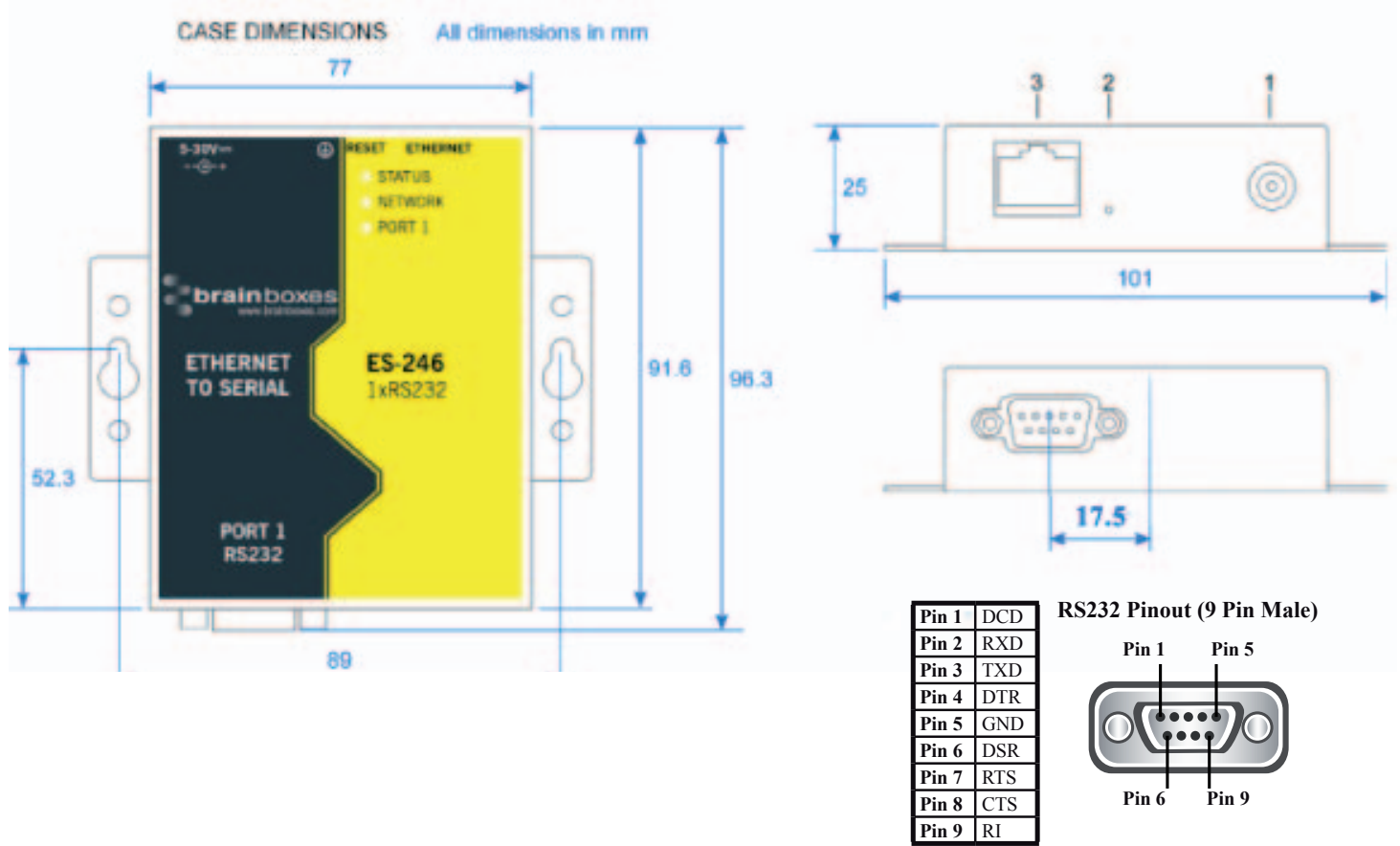


ES-246



CNC Machine(s)

## Box Information



### Key

- 1 - Power Input
- 2 - Reset button for device
- 3 - Ethernet port - 10/100 Mega bits/second

### Box

Size - 96.3x101x25mm (not including mounting ears or connectors)  
 Size - 91.6x77x25mm (including mounting ears or connectors)  
 IP-30 rated case

## LED Information

<b>Status LED</b>	Green	Device Ready
	Flashing Yellow	Changing Settings
	Flashing between Red & Green	Querying IP
	Flashing Green/Red	User performing Hard Reset
	Flashing between Green & Red/Yellow	IP address diagnostic
<b>Serial Port LEDs</b>	Flashing between Green & Yellow	Initialization diagnostic
	Green light on	Port Open
<b>Network LED</b>	Flashing Green	Data RX / TX
	Green light on	Link Established
	Flashing Green	Data RX / TX

## Port

<b>Ports</b>	1 port RS232
<b>Connector</b>	DB9 Connector - 9 Pin Male
<b>Power Input</b>	5 - 30V DC input, reverse polarity protected
<b>Power Consumption</b>	0.76W (Typical)

## Port Settings - RS232

<b>Baud Rate</b>	From 110 - 230,400
<b>Data Bits</b>	5,6,7 or 8
<b>Parity</b>	Odd, Even, None, Mark or Space
<b>Stop Bits</b>	1 or 2
<b>Flow Control</b>	RTS/CTS, DSR/DTR, XON/XOFF
<b>Tx/Rx Modes</b>	Point to Point

## Port Settings - Ethernet

<b>Data Rate</b>	10/100 Mega bits/second
<b>Cabling</b>	Normal / Crossover auto-sensing (Auto-MDIX)

## Environmental

<b>Operating Temperature</b>	0 to 55°C
<b>Storage Temperature</b>	-20 to 85°C
<b>Ambient Relative Humidity</b>	5 to 95% (non-condensing)
<b>Housing</b>	IP-30 rated case

## Software

<b>Network Protocols</b>	ICMP, IP, TCP, UDP, DHCP, BOOTP, Telnet, HTTP, RFC2217
<b>Configuration Options</b>	Windows Utility, Web Interface
<b>OS Compatibility</b>	Microsoft Windows 7 32 bit & 64 bit Editions / Windows Server 2008 32 bit & 64 bit Editions / Windows Vista 32 bit & 64 bit Editions / Windows Server 2003 32 bit & 64 bit Editions / Windows XP 32 bit & 64 bit Editions / Microsoft Windows 2000 / Fully RFC2217 compliant / Interface for other OS's & Linux
<b>Connection to Network</b>	Ethernet 10BaseT / 100BaseTX

## Approvals

<b>Industry Approvals</b>	AEO C-TPAT Microsoft Certified Gold Partner WEEE RoHS EMC: CE TAA
<b>Microsoft Approvals</b>	Microsoft Certified Gold Partner
<b>Microsoft Signed Drivers</b>	Windows 7 32 bit & 64 bit Editions



GB AEOF 00031/11



## Packing Information

<b>Packaging</b>	Quick Start Guide, Country Specific Power Supply, Installation CD including manual, Microsoft signed drivers & utilities
<b>Device</b>	Ethernet 1 Port RS232
<b>Accessory Items</b>	Global Power Supply - PW-800 (included), DIN-Rail Mounting Kit - MK-048
<b>Packaged Weight</b>	0.509 kg, 1.12 pounds
<b>Packaged Dims</b>	235(l) x 170(w) x 62(h) mm, 9.25(l) x 6.69(w) x 2.44(h) inches

## 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](mailto:sales@brainboxes.com)

## Accessory Items

ORDER CODE - DIN-Rail Mounting Kit - MK-048

ORDER CODE - Additional Global Power Supply - PW-800

