

ES-346 ETHERNET TO SERIAL DEVICE SERVER Ethernet 4 Port RS422/485

CONNECT, CONFIGURE, CONTROL YOUR SERIAL DEVICES



Features

- 4 port RS422/485
- Max baud rate 1,000,000 1 MegaBaud
- 10/100Base TX Ethernet port
- User friendly interface, simple to use, powerful in operation
- Web configuration and RFC2217 compliant interface
- 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 with screw fix connector (5-30V DC)
- Simple operation for each and every operating system!
- Lifetime Warranty
- Lifetime Support



Description

Ethernet to Serial device server providing access to four RS422/485 serial ports. Data transfer rates up to 1,000,000 baud rates, coupled with 1Mbit/s line drivers deliver uncompromising performance. Our ES range provides simple instant networked serial ports. RS485 - 1 twisted pair - half duplex configuration with autogating provides trouble free data transmission due to automatic control of data direction. 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. You can access the device via TCP/IP sockets from any networked device like an Android tablet, PC or phone. Serial Port Tunnelling individually configurable allows serial cable replacement over any distance, no software required. 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.

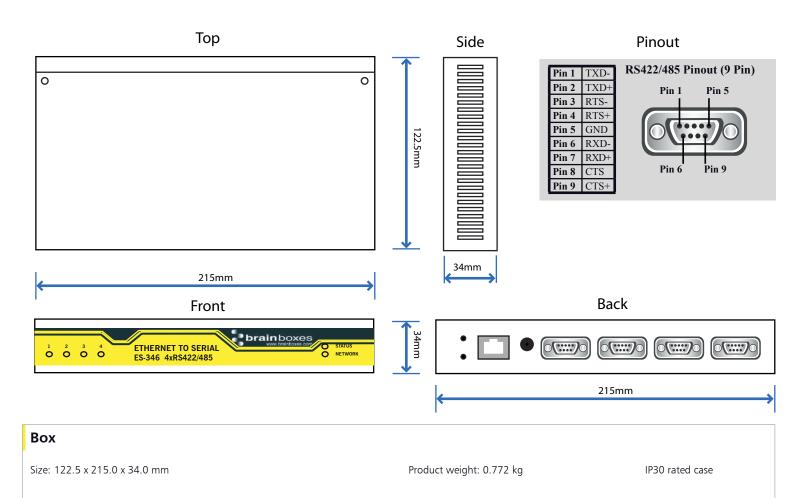
Web Interface Users (Linux/Apple OS/Android) - Alternatively access the device via TCP/IP socket from any networked device. Configure options via web interface.

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

Example Application

ES-346 Ethernet 4 Port RS422/485

Box Information



LED Information			
Status LED	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	
	Flashing between Green & Yellow	Initialization diagnostic	
Serial Port LEDs	Green light on	Port Open	
	Flashing Green	Data RX / TX	
Network LED	Green light on	Link Established	
	Flashing Green	Data RX / TX	
Port			
Ports	4 port RS422/485		
Connector	DB9 Connector - 9 Pin Male		

5 - 30V DC input, reverse polarity protected

1.45W Typical

Power Input

Power Consumption

ES-346 Ethernet 4 Port RS422/485

Port Settings - RS422/485

,
From 110 - 1,000,000 1 MegaBaud
5,6,7 or 8
Odd, Even, None, Mark or Space
1, 1.5 or 2
RTS/CTS, XON/XOFF
 RS422 Standard: RS422 allows one transmitter and up to 10 receivers with data transmitter rates up to 10 megabits per second for distances up to 40 feet and up to 100 Kilobits per second for distances up to 4,000 feet (1219 metres). To achieve good long distance noise immunity, 2 wires are used to carry each signal, configured as a twisted pair of cables. The TXD pair and RXD pair are used to carry the data whilst the RTS pair and CTS pair lines are used for handshaking. Thus 2 twisted pairs are used without handshaking and 4 twisted pair cable is used with handshaking both these schemes allow full duplex data communications. RS485 Standard: RS485, based on the RS422 standard allows up to 32 driver/receivers pairs on a standard load or 128 low load devices per port can be connected. Whilst only one of these should be transmitting data at any time, the rest can all simultaneously listen to the data. Handshaking is performed by software protocol. Two twisted pairs form a full duplex system. Often only one twisted pair cable is used as the TXD and RXD lines are tied together; this is known as half duplex mode. Brainboxes RS422/485 products implement a state of the art hardware autogating circuit ensuring error free communications in half duplex configurations.

	Port Settings - Ethernet	
Environmental Operating Temperature 0 to 55°c Storage Temperature -20 to 85°c Ambient Relative Humidity 5 to 95% (non-condensing) Housing IP-30 rated case Software ICMP, IP, TCP, DHCP, BOOTP, Telnet, HTTP, RFC2217 Configuration Options Vindows Utility, Web Interface OS Compatibility Microsoft Windows 10 32 bit & 64 bit Editions / Microsoft Windows 8 32 bit & 64 bit Editions / Microsoft Windows 2000 / Fully RFC2217 Connection to Network Ethermet 10BaseT / 100BaseTX Approvals AEO C-TPAT Microsoft Certified Gold Partner Microsoft Signed Drivers Windows 32 bit & 64 bit Editions Windows 32 bit & 64 bit Editions Windows 32 bit & 64 bit Editions Microsoft Approvals AEO C-TPAT Microsoft Certified Gold Partner Windows 32 bit & 64 bit Editions Windows 32 bit & 64 bit Editions Windows 32 bit & 64 bit Editions Windows 500 200 / Fully RFC2217 Consoft Signed Drivers Windows 10 32 bit & 64 bit Editions Windows 70 32 bit & 64 bit Editions Microsoft Certified Gold Partner Windows 70 32 bit & 64 bit Editions Windows 70 32 bit & 64 bit Editions Windows 70 32 bit & 64 bit Editions Windows 40 32 bit & 64 bit Editions	Data Rate	10/100 Mega bits/second
Operating Temperature 0 to 55° c Storage Temperature -20 to 85° c Ambient Relative Humidity 5 to 95% (non-condensing) Housing IP-30 rated case Software Vindows Value Network Protocols ICMP, IP, TCP, DHCP, BOOTP, Telnet, HTTP, RFC2217 Configuration Options Windows Utility, Web Interface OS Compatibility Microsoft Windows 10 32 bit & 64 bit Editions / Microsoft Windows 8 32 bit & 64 bit Editions / Windows Server 2008 32 bit & 64 bit Editions / Windows Vista 3 & 64 bit Editions / Windows Server 2008 32 bit & 64 bit Editions / Microsoft Windows 2000 / Fully RFC2217 Connection to Network Ethernet 10BaseT / 100BaseTX Approvals AEO C-TPAT Microsoft Certified Gold Partner WEEE RoHS EMC: CE Microsoft Signed Drivers Windows 10 32 bit & 64 bit Editions Windows 10 32 bit & 64 bit Editions Windows 10 32 bit & 64 bit Editions Microsoft Approvals AEO C-TPAT Microsoft Certified Gold Partner Microsoft Signed Drivers Windows 12 bit & 64 bit Editions Windows 2000 Windows Server 2008 32 bit & 64 bit Editions Windows Server 2008 32 bit & 64 bit Editions Windows 2000 Windows Server 2008 32 bit & 64 bit Editions Windows 2000 Windows 2000 Windows 2000 <th>Cabling</th> <th>Normal / Crossover auto-sensing (Auto-MDIX)</th>	Cabling	Normal / Crossover auto-sensing (Auto-MDIX)
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ES-346 Ethernet 4 Port RS422/485

Packing Information	
Packaging	Installation CD including manual, Microsoft signed drivers & utilities
Device	Ethernet 4 Port RS422/485
Accessory Items	Global Power Supply - AU, EU, UK, US - PW-500 (included), Snap In DIN Clip lit for 48 ports - MK-070 Wa Mounting Kit for 48 ports - MK-059
Packaged Weight	0.997 kg, 35.17 ounces
Packaged Dims	300x135x80 mm, 11.8x5.3x3.1 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	on
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
	IN Clip lit for 48 ports - MK-070 Wall Mounting Kit for 48 ports - MK-059
Accessory Items ORDER CODE - Snap In D	IN Clip lit for 48 ports - MK-070 Wall Mounting Kit for 48 ports - MK-059

Brainboxes Ethernet to Serial Range