



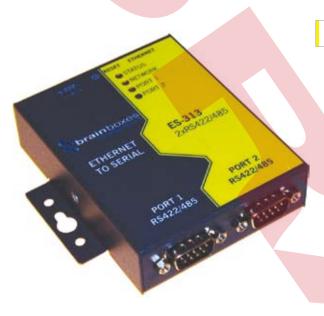






ES-313 ETHERNET TO SERIAL DEVICE SERVER Ethernet 2XRS422/485

CONNECT, CONFIGURE, CONTROL YOUR SERIAL DEVICES



Description

Ethernet to Serial device server providing access to two RS422/485 serial ports. Up to 230,400 data transfer rates, coupled with 1Mbit/s line drivers deliver uncompromising performance. Our ES range provides a simple, instant cable replacement providing network integration. RS485 - 2 wire half duplex configuration with autogating provides trouble free data transmission due to automatic control of data direction.

Windows Users - Our Boost.LAN driver gives you local COM ports, retaining existing software applications on your network and allowing you to connect over larger distances. Our ES products are simple, instant cable replacement providing network integration on Windows 7 and Windows XP. Can install on any COM Port from COM1 to COM255 and 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!

Features

- 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
- Rugged metal enclosure
- LED status indication
- Optional DIN rail mounting kit
- Power Supply included
- Power input 5-30V DC
- Simple operation for each and every operating system!

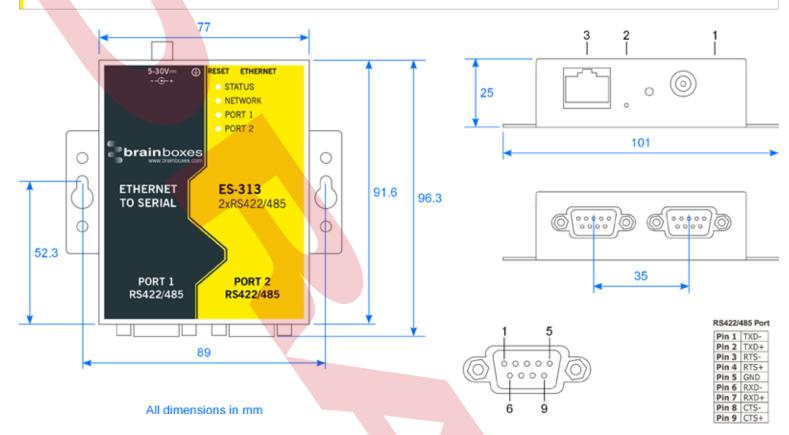
Example Application



ES-313 Ethernet 2XRS422/485



Box Information



Key

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

Box Dimensions

Size - 90x62x25 mm (not including mounting ears or connectors)
Size - 120x80x25 mm (including mounting ears or connectors)

LED Information

Status LED	Flashing 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
Ethernet LED	Green light on	Link Established
	Flashing Green	Data RX / TX

Port

Ports RS422/485

Connector DB9 connector -- 9 Pin Male

Power Input 5 - 30V DC input, reverse polarity protected

ES-313 Ethernet 2XRS422/485



Port Settings - RS422/485

Baud Rate From 110 - 230,400

Data Bits 5,6,7 or 8

Parity Odd, Even, None, Mark or Space

Stop Bits 1, 1.5 or 2

Flow Control RTS/CTS, XON/XOFF

Tx/Rx ModesRS422 Full duplex. RS485 4 wire full duplex or 2 wire half duplex with Autogating, automatic control of data direction. They have 128 byte FIFOs, 1 MegaBoard data transfer, with on board Hardware and Software flow

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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

Data Rate 10/100 Mega bits/second

Cabling Normal / Crossover auto-sensing (Auto-MDIX)

Product Information

Power ConsumptionawaitingProduct Weightawaiting Kg

Environmental

Operating Temperature 0 to 55°c **Storage Temperature** -20 to 85°c

Ambient Relative Humidity 5 to 95% (non-condensing)

Software

Network Protocols ICMP, IP, TCP, UDP, DHCP, BOOTP, Telnet, HTTP, RFC2217

Configuration Options Windows Utility, Web Interface

OS Compatibility Microsoft Windows 7 / 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

Connection to Network Ethernet 10BaseT / 100BaseTX

Approvals

Industry Approvals WEEEROHS EMC: CE

Microsoft Approvals Microsoft Certified Gold Partner

Microsoft Signed Drivers 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











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Packing Information

Packaging Installation CD including manual, Microsoft signed drivers & utilities

Device Ethernet 2XRS422/485

Accessory Items DIN-Rail Mounting Kit - MK-048

Power Supply (UK) - PW-544Power Supply (EU) - PW-511

Packaged Weight awaiting Kg
Packaged Dims awaiting mm

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

Accessory Items

