











ES-357 ETHERNET TO SERIAL DEVICE SERVER Ethernet 1 Port RS232 + 1 Port RS422/485

CONNECT, CONFIGURE, CONTROL YOUR SERIAL DEVICES



- 2 port RS232 + 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 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
- Simple operation for each and every operating system!



Ethernet to Serial device server providing access to one RS232 and one RS422/485 serial port. Data transfer rates up to 1,000,000 baud, 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.

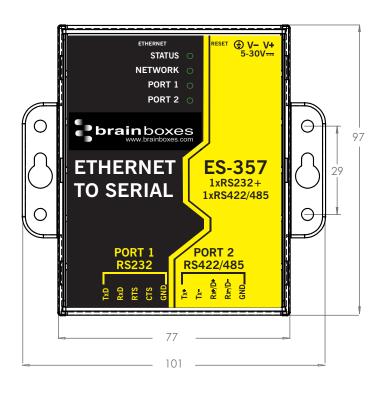
Web Interface Users (Linux/Apple OS/Android) - Alternatively access the device via TCP/IP socket from any networked device. Configure options via web interface.

Extend your reach





ES-357 Ethernet 1 Port RS232 + 1 Port RS422/485



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

Link Established

Data RX / TX

Port

Network LED

LED Information

Ports 2 port RS232 + RS422/485

ConnectorScrew terminal block connector - 0.1 inch pitchPower Input5 - 30V DC input, reverse polarity protected

Green light on

Flashing Green

Power Consumption 1.8W Max / 1.0W Typical

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ES-357 Ethernet 1 Port RS232 + 1 Port RS422/485

Port Settings - RS232 + RS422/485

Baud Rate From 110 - 1,000,000 1 MegaBaud

Data Bits 5,6,7 or 8

Parity Odd, Even, None, Mark or Space

Stop Bits 1 or 2

Flow Control RTS/CTS, DSR/DTR, XON/XOFF

Tx/Rx Modes Point to Point RS232, Full Duplex, Half Duplex Autogating, Hardware Autogating, TxD always/ RTS true ena-

bled, RxD always enabled, RxD RTS true disabled, CTS forced true RS422/485

Standards Available with Screw Terminals Versions

RS422/485

RS232 Standard: RS232 allows point to point communication between 2 devices.

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).

• ES-020 : RS232 • ES-357 : RS232 +

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)

Environmental

Operating Temperature -10 to 60°c Storage Temperature -20 to 85°c

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

Housing IP-30 rated case

Software

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 / 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 /

Connection to Network Fully RFC2217 compliant / Interface for other OS's & Linux

Ethernet 10BaseT / 100BaseTX

Approvals

Industry Approvals AEO C-TPAT Microsoft Certified Gold Partner WEEE RoHS EMC: CE TAA

Microsoft ApprovalsMicrosoft Certified Gold PartnerMicrosoft Signed DriversWindows 10 32 bit & 64 bit Editions

Windows 8 32 bit & 64 bit Editions Windows 7 32 bit 64 bit Editions Windows Vista 32 bit 64 bit editions Windows XP 32 bit 64 bit editions

Windows 2000

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GB AEOF 00031/11

Packing Information

Packaging Installation CD including manual, Microsoft signed drivers & utilities

Device Ethernet 1 Port RS232 + 1 Port RS422/485

Accessory Items Global Power Supply - PW-600 DIN-Rail Mounting Kit - MK-048

Packaged Weight 0.253 kg, 8.92 ounces

Packaged Dims 160x135x45 mm, 6.3x5.3x1.8 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

Accessory Items

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



ORDER CODE - Global Power Supply - PW-600



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