





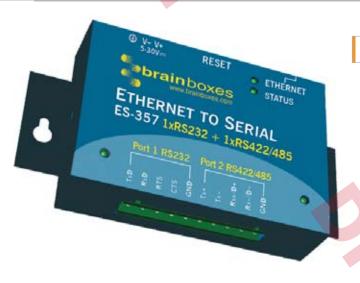


Anniversary

ES-357 ETHERNET TO SERIAL DEVICE

1 PORT RS232 + 1 PORT RS422/485 - Block terminal connector

CONNECT, CONFIGURE, CONTROL YOUR SERIAL DEVICES



Description

Ethernet to Serial device server providing access to one RS232 and one RS422/485 serial port. Up to 230,400 data transfer rates, coupled with 1Mbit/s line drivers deliver uncompromising performance.

Our Boost.net 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 XP and Vista. Alternatively access the device via TCP/IP socket from any networked device. Configure options via web interface.

RS485 - 2 wire half duplex onfuguration with autogating provides trouble free data transmittion due to automatic control of data direction.

Extend your reach! Remote serial devices brought near.

With Brainboxes industry renowned Lifetime Warranty* and Lifetime Support!

Example Application



ORDER

Description

Ethernet to Serial 1xRS232 + 1xRS422/485

- Block terminal connector

Code

ES-357

OPTIONAL EXTRAS

ES-357 Power Supply UK DIN-Rail Mounting Kit

Code PW-644 MK-048

PRODUCT INFORMATION

Software

Microsoft signed drivers (easy installation & robust operation) for:

- Windows XP 32 bit & 64 bit Editions
- Windows Server 2003
- Windows 2000

Accreditations







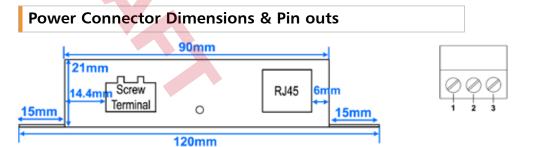








ES-357 1xRS232 + 1xRS422/485 - Block terminal connector

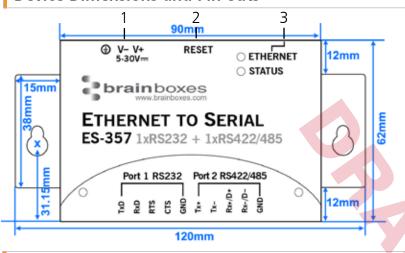


Power Connector

Pin 1 V+ Power Supply + Pin 2 V- Power Supply -

Pin 3 Earth/Chassis Ground

Device Dimensions and Pin outs



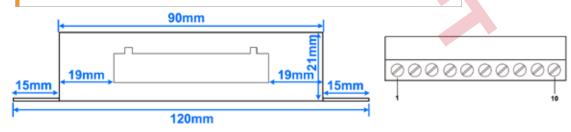
Key

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

Box Dimensions

Size - 90 x 62 x 25 mm (not including mounting ears or connectors) Size - 120 x 80 x 25 mm (including mounting ears or connectors)

Screw Terminal Dimensions & Pin outs



RS232 Port	RS422/485 Port
Pin 1 TxD	Pin 6 TxD+
Pin 2 RxD	Pin 7 TxD-
Pin 3 RTS	Pin 8 RxD+/D+
Pin 4 CTS	Pin 9 RxD-/D-
Pin 5 GND	Pin 10 GND

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	Problem obtaining IP address
	Flashing between Green & Yellow	Problem during initialization (e.g. Firmware Problem)
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	1 Port RS232 + 1 Port RS244/485	
Connector	Screw terminal block connector - 0.1 inch pitch	
Power Input	5 - 30V DC input, reverse polarity protected	







ES-357 1xRS232 + 1xRS422/485 - Block terminal connector

Port Settings	
RS232	
Baud Rate	From 110 - 230,400
Data Bits	5, 6, 7 or 8
Parity	Odd, Even, None, Mark or Space
Stop Bits	1, 2
Flow Control	RTS/CTS, XON/XOFF

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, 2
Flow Control	XON/XOFF
Tx/Rx Modes	RS422 Full duplex. RS485 4 wire full duplex or 2 wire half duplex with Autogating, automatic control of data direction. They have 128 bute FIFOs, 1 MegaBoard data transfer, with on board Harware and Software flow control. 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 configuations.

	hardware autogating circuit ensuring error free	communications in half duplex configuations.
Port Settings		
Ethernet		
Baud Rate	10/100 Mega bits/second	
Flow Control	Normal, auto-crossover	
Product Information		
Power Consumption	1.8W Max / 1.0W Typical	
Product Weight	0.205kg	
Environmental		
Operating Temperature	0 to 55°c	
Storage Temperature	-20 to 85°c	
Ambient Relative Humidity	5 to 95% (non-condensing)	







ES-357 1xRS232 + 1xRS422/485 - Block terminal connector

Software	
Network Protocols	ICMP, IP, TCP, UDP, DHCP, BOOTP, Telnet, HTTP, RFC2297
Configuration Options	Windows Utility, Web Interface
OS Compatibility	Windows XP 32 & 64 bit Editions / Fully RFC2217 compliant Interface for other OS's & Linux
Connection to Network	Ethernet 10BaseT / 100BaseTX

Approvals	
Industry Approvals	EMC: CE/FCC ROHS WEEE
Microsoft Approvals	Microsoft Certified Gold Partner
Microsoft Signed Drivers	Windows XP 32 & 64 bit Editions / Windows Server 2003 / Windows 2000

Packing Information	^
Packaging	Installation CD including manual, Microsoft signed drivers & utilities
Device	Ethernet to Serial 1xRS232 + 1xRS422/485
Optional Extras	Power Supply - PW-644 DIN Rail Kit - MK-048
Packaged Weight	0.305Kg
Packaged Dims	140mm x 150mm x 4mm

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 Inforr	nation
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

Optional Extras

