

Product Datasheet - Technical Specifications



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ES-420 PoE ETHERNET TO SERIAL DEVICE SERVER Ethernet 1 Port RS422/485 Power Over Ethernet PoE

CONNECT, CONFIGURE, CONTROL YOUR SERIAL DEVICES



Features

- 1 Port RS-422/485 with Power over Ethernet IEEE802.3af
- Ethernet to Serial Device Server
- Data rate from 110 to 1,000,000 baud
- User friendly interface, simple to use, powerful in operation
- Serial Port Tunnelling allows serial cable replacement over any distance, no software required
- Optional DIN rail mounting kit and stand alone power supply





Description

Ethernet to Serial device server with Power over Ethernet providing access to one RS422/485 serial port. Data transfer rates up to 1,000,000 baud, coupled with 1Mbit/s line drivers deliver uncompromising performance. Power over Ethernet PoE uses IEEE 802.3af standard, compatible with any PoE switch.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. Serial Port Tunnelling 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.

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

Example Application

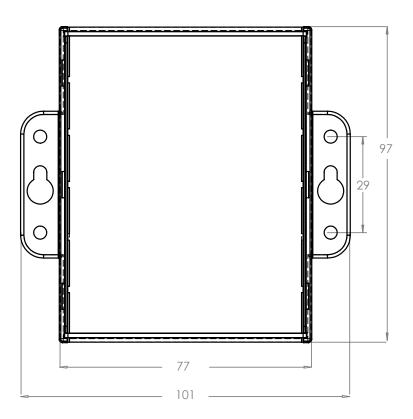


Connect, Configure, Control



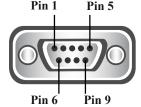
ES-420 Ethernet 1 Port RS422/485 Power Over Ethernet PoE

Box Information





RS422/485 Pinout (9 Pin) Pin 1 Pin 5



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 1 port RS422/485

Connector DB9 Connector - 9 Pin Male

Power Over Ethernet OR 5 - 30V DC input, reverse polarity protected **Power Input**

Power Consumption 1.74W

ES-420 Ethernet 1 Port RS422/485 Power Over Ethernet PoE

Port Settings - 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, XON/XOFF

Tx/Rx Modes Full Duplex, Half Duplex Autogating - Hardware Autogating

Port Settings - Ethernet

Data Rate 10/100 Mega bits/second

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

Power over Ethernet Power Over Ethernet OR 5 - 30V DC input, reverse polarity protected IEEE 802.3af

Environmental

Operating Temperature $0 \ \hat{A}^{\circ}C \ \text{to} +60 \ \hat{A}^{\circ}C \ / 32 \ \hat{A}^{\circ}F \ \text{to} +140 \ \hat{A}^{\circ}F$

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

Housing IP-30 rated case

Software

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

Data Transfer Protocol TCF

Configuration Options Windows Utility, Web Interface

OS Compatibility

Communicate with Device over TCP from any OS / Microsoft Windows 8 32 bit 64 bit Editions / Windows Server 2012 / Microsoft Windows 7 32 bit 64 bit Editions / Windows Server 2008 32 bit 64 bit Editions /

Server 2012 / Microsoft Windows 7 32 bit 64 bit Editions / Windows Server 2008 32 bit 64 bit Editions / Windows Vista 32 bit 64 bit Editions / Fully RFC2217 compliant / Interface for other OS's & Linux

Approvals

Industry Approvals

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

Microsoft ApprovalsMicrosoft Certified Gold PartnerMicrosoft Signed DriversWindows 8 32 bit 64 bit EditionsWindows 7 32 bit 64 bit Editions

















Packing Information

Packaging Quick Start Guide, Installation CD including manual, Microsoft signed drivers & utilities

Device Ethernet 1 Port RS422/485 Power Over Ethernet PoE

Accessory Items Available from Brainboxes : Optional Global Power Supply - PW-800, DIN-Rail Mounting Kit - MK-048

Packaged Weight 0.234 kg, 8.25 ounces

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

UPC number 837324003734

ES-420 Ethernet 1 Port RS422/485 Power Over Ethernet PoE

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.

Accessory Items

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



ORDER CODE - Optional Global Power Supply - PW-800

