ED-004 Ethernet to Digital I/O +RS232

4 Digital I/O Lines with RS232 Serial Port

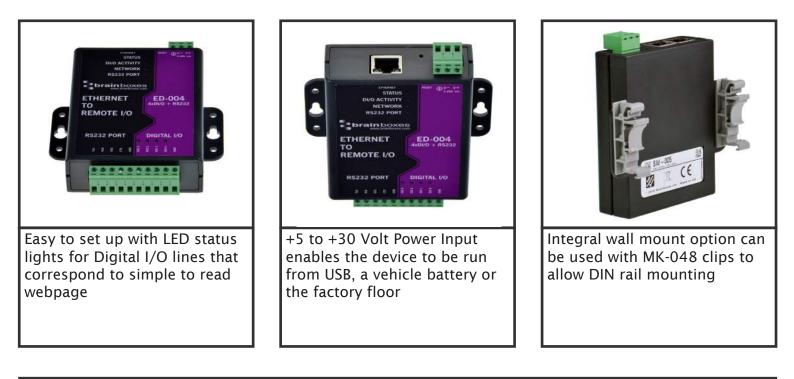
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- 4 Digital Ports independently can be In or Out
- 1 RS232 Serial Port
- 1 Ethernet Port
- User friendly software interface Simple web based configuration, monitoring and control
- Software APIs for VB, C# and more







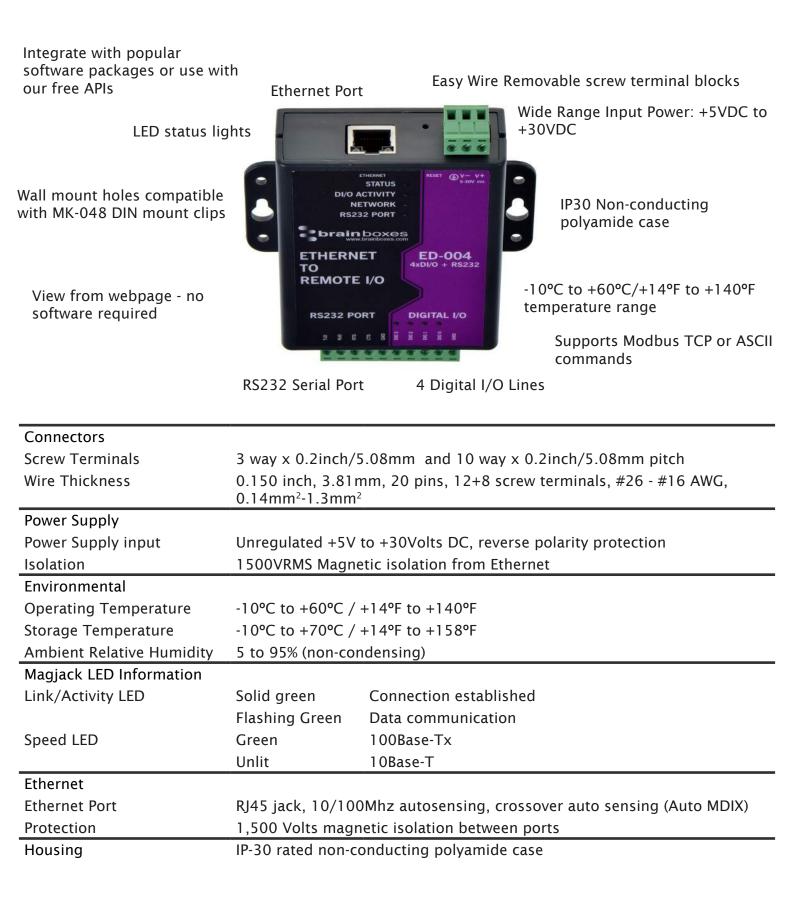


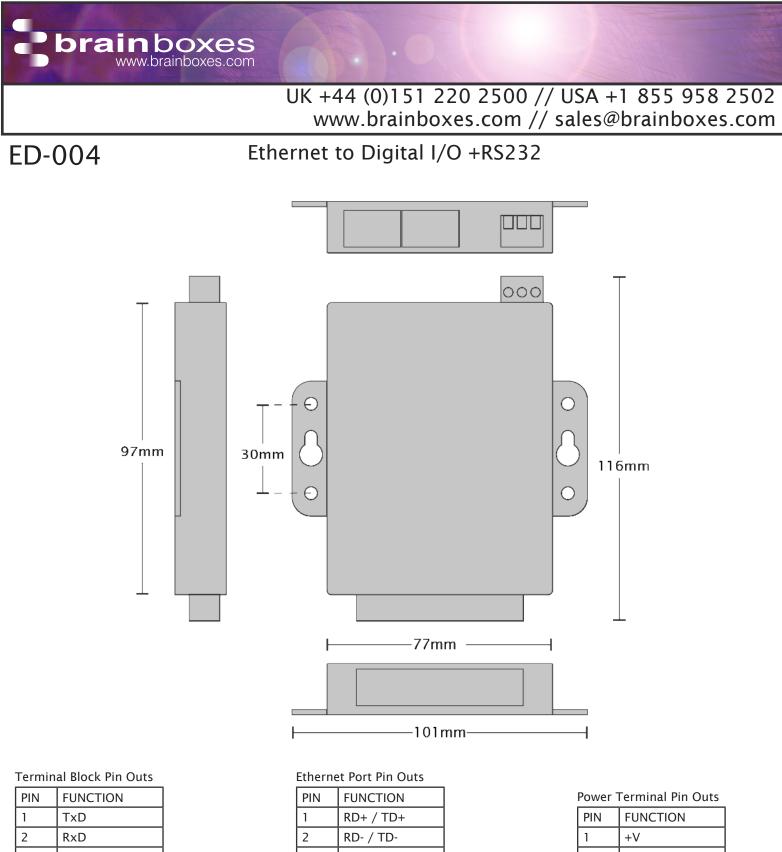
ED-004

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Ethernet to Digital I/O +RS232





1	TxD
2	RxD
3	RTS
4	СТЅ
5	GND
6	DIO 3
7	DIO 2
8	DIO 1
9	DIO 0
10	GND

PIN	FUNCTION
1	RD+ / TD+
2	RD- / TD-
3	TD+ / RD+
4	NC
5	NC
6	TD- / RD-
7	NC
8	NC

1	+V
2	-V
3	Functional Earth

Lifetime Warranty and Support:

We can help with every aspect of your project, from getting you up and running to custom application.

ED-004

Ethernet to Digital I/O +RS232

Digital Channels - 4 Ports individually selectable as Inputs or Outputs		
Inputs		
NPN/PNP	Individually jumper selectable pull up for NPN, active low, type sensors and pull down for PNP, active high, type sensors	
Logic Level 0:	0V to +1V	
Logic Level 1:	+2V to +30V	
Latched Inputs:	Triggered by user programmable positive or negative edges, stays true until acknowledged	
Counter Inputs:	User programmable- counts positive or negative transitions 0-65335	
Outputs		
Maximum output current	Sinks up to 0.85 Amp per pin, 30V max load Max combined load 3.4 Amps per ED device	
Characteristic:	Open drain output, protected MosFET intelligent short circuit protection up to 36V Over temperature shutdown :175°C typical 150°C min	
Maximum output load Voltage	30V	
ESD Production	16kV	
Quick-Stop function	When a user programmable input transitions to a preconfigured high or low state then all outputs go to a user programmable known good state	
Serial Port - RS232		
Baud Rate	From 110 - 1 MegaBaud - Any custom Baud rate accepted	
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	Point to Point	

Software

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OS CompatibilityBrainboxes' software provides a TCP or Serial COM port interface. All
software versions and updates available to download from our website.MicrosoftLegacy COM port drivers for Microsoft OS up to latest Windows 11

Other

TCP and web browser interface for other OSs & Linux, e.g. Android, Raspberry Pi



Boost.IO Manager	Lets you find, install and upgrade devices
Industry Standard Packages	The COM port based driver means devices are compatible with popular packages such as: LabView, MATLAB, Agilent VEE. So you can continue to get value from your existing development and process control system.
Software Platforms	APIs and sample program code for: Microsoft .NET, C#, Visual Basic, C++, JavaScript, PHP, Java, Objective-C, Python and more - www.brainboxes.com



Modbus

Device works as a Modbus TCP server. Modbus TCP can be used on the input and output lines.

	Modbus access type	Supported Modbus function codes	Logical address	984 style address	IEC 61131 address
Read DI counter values	Holding register	3	0x0000	40001	%MW0
Clear DI counters	Coil	5, 15	0x0200	00513	%M512
Set/read digital outputs	Coil	1, 5, 15	0x0000	00001	%M0

ASCII

The ED device's webpage has an interactive ASCII console where any command can be entered and it is immediately executed showing the device's response.

\$01M	read the name of device address 01
!01ED-588	device 01 replies that its name is ED-588
\$01F	read firmware version number of device address 01
!012.54	firmware version of device 01 is 2.54

Full command tables can be found in the device manual









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ED-004	Ethernet to Digital I/O +RS232		
Packaging Information			
Packaging	Microsoft signed drivers & utilities, Quick Start Guide, Device		
Packaged Weight	0.222 kg, 7.83 ounces		
Packaged Dims	160x135x49 mm, 6.3x5.3x1.9 inches		
GTIN Universal Code	837324009859		
Approvals			
Industry Approvals	Microsoft Certified Gold Partner, WEEE, RoHS, AEO (C-TPAT), CE, UKCA		
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		



PW-600 Power supply with connectors for UK, USA, EU and AUS mains socket. 'Tails' are suitable for connecting to screw terminal blocks.



MK-048 DIN Rail Mounting Kit Enables device to be clipped onto a DIN rail.

