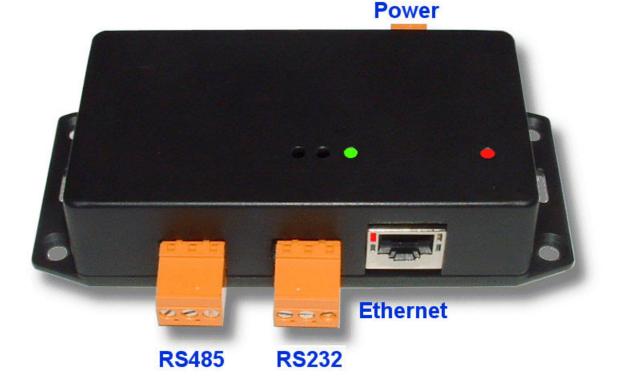
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Ethernet to RS232 or RS485 data converter EtherNet-RS232/485

Connection details and general information

Ethernet 10/100 to RS232 or RS485 converter



Dated: 30 June 2009

1

notes

Alphabetic Index

Introduction	page 4
Warnings	page 5
Description	page 6
What is included?	page 7
Specifications	page 8
Connections and Switches	page 9
PC Configuration - start	page 10
PC Configuration - General properties	page 11
PC Configuration - Control lines	page 12
PC Configuration - Default serial settings	page 13
PC Configuration - Address Book	page 14
PC Configuration - Network	page 15
PC Configuration - Connection	page 16
PC Configuration - Serial port	page 17
PC Configuration - Outbound packets	page 18
LED Functions	page 19
Connecting to a message display	page 20

Introduction

Please contact us if you need help, if you have a complaint, or if you have suggestions to help us improve our products or services for you.

If you contact us about a product you already have, please tell us the full model number and serial number, so that we can give you accurate and fast help.

This product has a 2 year warranty. We will put right or replace any item which is faulty because of bad workmanship or materials. This warranty does not cover damage caused by misuse or accident.

IMPORTANT

If this equipment is important to your process, you may want to buy a spare to cover possible failure or accidental damage in the future.

This is because at some times, for example during our factory shutdown periods, you may have to to wait several weeks for an equivalent replacement. Or, we may have no stock at the time you urgently need it.

You may also need to pay extra carriage charges if you want a fast, guaranteed courier service. Warranty repairs or replacements are normally returned with a standard courier service.

We do not offer any compensation for losses caused by failure of this instrument.

If you do not agree with these conditions, please return this item now, in unused, clean condition, in its original packaging and we will refund the purchase price, excluding any carriage paid.

We thought you'd prefer to know about possible delays and extra charges now, rather than during a panic.

We always try to improve our products and services, so these may change over time. You should keep this manual safely, because future manuals, for new designs, may not describe this product accurately.

We believe these instructions are accurate, and that we have competently designed and manufactured the product, but please let us know if you find any errors.



Please carefully read all warnings and ONLY install the item when you are sure that you've covered all aspects.

- * Connect the equipment according to current IEE regulations and separate all wiring according to IEC1010.
- * Power supplies to this equipment must have anti-surge (T) fuses rated at 1A for DC supplies in the range 11-30VDC.
- * Check that the model number and supply voltage suit your application before you install the equipment.
- * Don't touch any circuitry after you have connected the equipment, because there may be lethal voltages on the circuit board or connector terminals.
- * Only adjust on-board switches or connections with the power turned off.
- * Make sure all screw terminals are tight before you switch the equipment on.
- * Only clean the equipment with a soft dry lint-free cloth. Do not use any solvents.

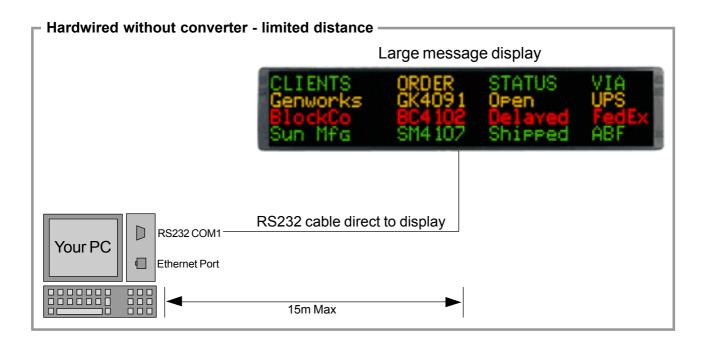
Safety FirstDon't assume anything...... Always double check. If in doubt, ask someone who is QUALIFIED to help you in the subject.

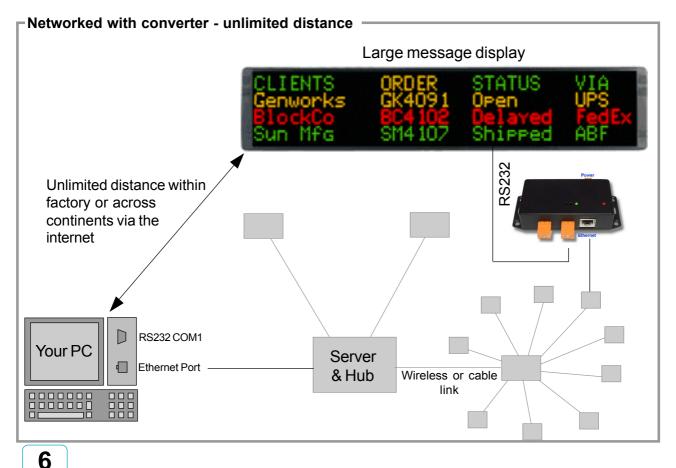
Description

This device allows you to connect RS232 or RS485 equipment onto an Ethernet network. This is ideal for such products as message displays, large numeric displays etc, which may be located far from your PC.

It creates a 'Virtual Serial Port' on your computer, which means you can use the standard application software for the RS232 or RS485 device. You can then treat the device just as if it were connected directly to your RS232 port on the back of your PC.

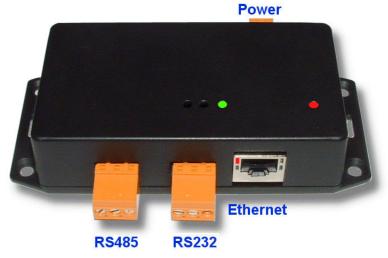
The Ethernet converter will mount next to your serial RS232 device.





What is included?

1 x Ethernet to Serial converter.





1 x PC Configuration software

1 x 12V DC power supply (Only included if ordered)

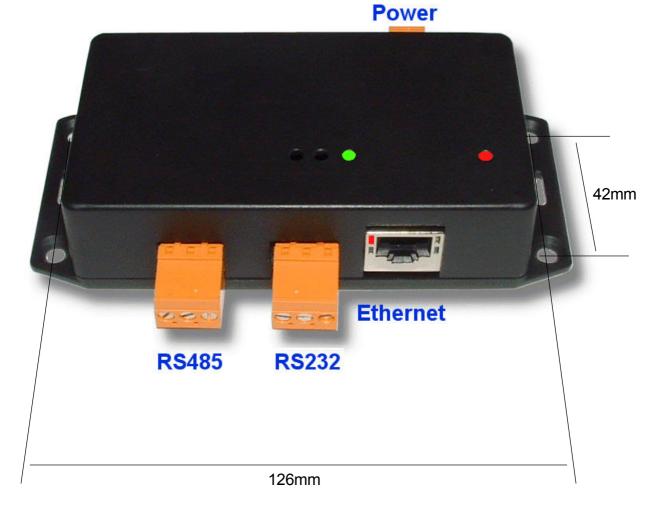


Specifications

Case width Case forward projection Case height Typical weight **Operating conditions** Storage conditions Case sealing Case Material Cable dimensions Flammability Class Power supply Isolation

Ethernet Connection Serial Data ports

137.0 mm max ŝ 30.0 mm 62.0 mm case only, 98.0mm including connectors 135 grams : 0 to 50 degrees C : -20 to +70 degrees C IP40 PolyCARBONATE Accepts cables up to 1.5mm diameter. ÷ V0 (UL94) 12 to 30V DC, 2 watts max. Ethernet isolated from power and RS232/RS485 2 RS232 and RS485 ports not isolated from power. Standard base 10/100 RJ45 1 1 RS232 or RS485, switch selectable. Baud rate set with PC based configuration software.



Mounting holes are countersunk, 4.2mm diameter Screws not supplied.

8

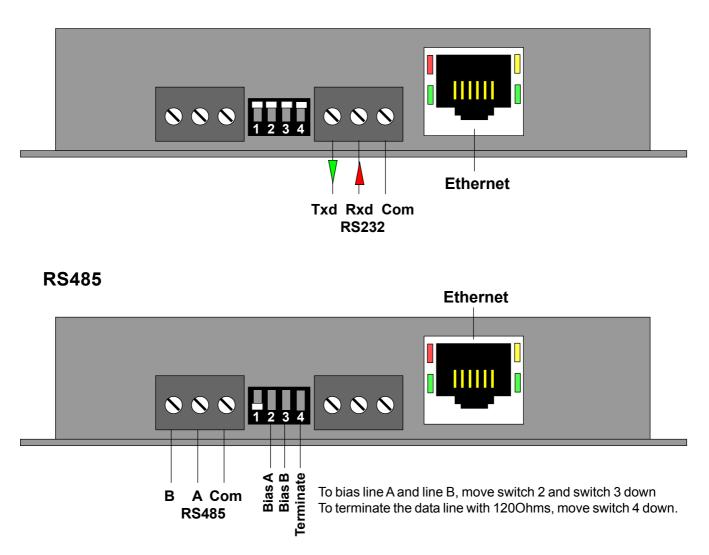
Connections & Switches

Note: Only move switches when the converter is switched off

12 - 30V DC Power



RS232



To add a port, click the Add button

VSP Manage ile Port Help		2		
PortName	Routi	Destination	Local	Add
СОМ2	TCP	192.168.16.202:	0	Remove
				Edit
4				
Add	, configure,	and remove Virtual 9	erial Ports (N	/SPs)

Settings shown are examples only.

You will need to choose your own settings to suit your network.

Choose a COM port and IP address...

Properties: new \	VSP - V3.9.82	×
General propertie	© Control lines Default serial settings	
VSP name:	COM4	
—Networking —		_
	Use WinSock for transport	
Transport protocol:	TCP Routing Client Client	
On-the-fly commands:	Out-of-Band Connection On data	
Connection timeout:	5 Listening 0 port:	
—Destination —		_
Destination mode:	Single destination	
Specify by:	IP-address	
IP-address:	127 . 0 . 0 . 1 Port 1001	
	Select Device Server from the list	
Load	Save OK Cancel	

Settings shown are examples only.

You will need to choose your own settings to suit your network.

Properties: new ¥S	P - ¥3.9.82		×
General properties	Control lines	Default serial settings	
	CTS	Normal (reported by Device Server)	
	CIS		
	DSR	Normal (reported by Device Server)	
	DCD	Normal (reported by Device Server)	
physically impleme	ented but your specific state.	when certain serial control input lines are not application software requires these lines to be in For more information click <u>here</u> . Restore defaults	
Load	Save	OK Cancel	

Settings shown are examples only.

You will need to choose your own settings to suit your network.

Properties: new VSP - V3.9.82				
General properties Control lines Default serial settings				
Baud rate (bps): 1200 Data bits: 8 Parity: None Flow control: Hardware				
Flow control: Hardware Default serial settings do not affect actual initial state of VSP. They are simply "associated" with this COM port. Use Win32 API functions GetDefaultCommConfig and SetDefaultCommConfig to work with these settings from your application. For more information click here. Restore defaults				
OK Cancel				

Settings shown are examples only.

You will need to choose your own settings to suit your network.

If connecting to our message displays, you will need to choose 9600 baud by default.

You may need to turn off your firewall during auto discovery.

uto-Disco	overy Address Boo	ik			
Group	General (Default g	jroup)		-	Refresh
itatus	IP	Access	Owner/Device n	Comment	Select
					Settings
					Upgrade
					Initialize
					Routing Status
					Buzz!
					Add
					Remove
					Edit
					Groups
					Find

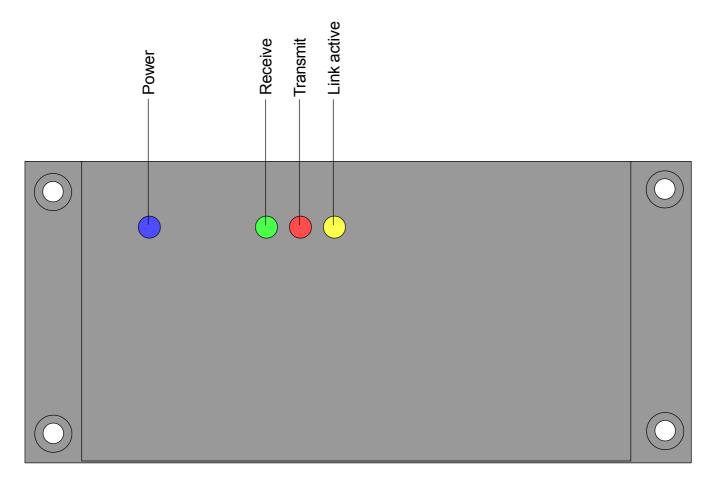
📎 Settings: DS <¥3.63+NL>	
Network Connection Serial	port Outbound packets All
Owner name	LEL
Device name	D001
MAC-address	0.202.0.0.47.63
DHCP	0- Disabled
IP-address	192.168.16.202
Port	1001
Registration at dDNS Server	0- Disabled
dDNS Server IP-address	(irrelevant)
dDNS Server port	(irrelevant)
Auto-registration on Link Serv	0- Disabled
PPPoE mode	0- Disabled
PPPoE login name	(irrelevant)
PPPoE login password	(irrelevant)
Gateway IP-address	192.168.0.100
Subnet mask	255.255.255.0
Save Load	Password OK Cancel

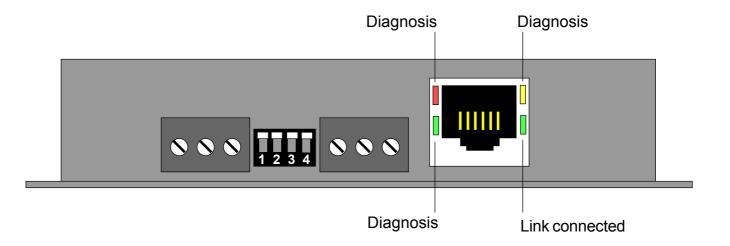
Settings: DS <v3.63+nl></v3.63+nl>	I port Outbound packets All
Connection timeout (min)	5
Transport protocol	1-TCP
Broadcast UDP data	(irrelevant)
Link Service login	0- Disabled
Inband commands	0- Disabled
Data login	0- Disabled
Routing Mode	0- Server (Slave)
Accept connection from	0- Any IP-address
Connection mode	(irrelevant)
Destination IP-address	(irrelevant)
Destination port	(irrelevant)
Notification destination	0- Last port
Save Load	Password OK Cancel

Settings: DS <¥3.63+NL>	
Network Connection Serial	port Outbound packets All
Serial interface	2- Automatic
RTS/CTS flow control	0- Disabled or remote Do NOT Change this 🗨
DTR mode	1-Indicate connection status
Power-up DTR state	(irrelevant)
Baud rate	3- 9600 bps
Parity	0-None
Data bits	1-8 bits
Soft entry into Serial programm	0- Disabled
Escape character (ASCII co	(irrelevant)
On-the-Fly commands	1-Enabled
Password for on-the-Fly con	0- Disabled
Notification bitmask	0
1	
Save Load	Password OK Cancel

📎 Settings: DS <¥3.63+NL>	
Network Connection Serial	I port Outbound packets All
Max packet length	255
Max intercharacter delay	1
Start on any char	1-Yes
Use start-character	0- No
Start character (ASCII code)	0
Use stop-character	0- No
Stop-character (ASCII code)	0
Number of post-characters	0
Save Load	Password OK Cancel

LED Functions



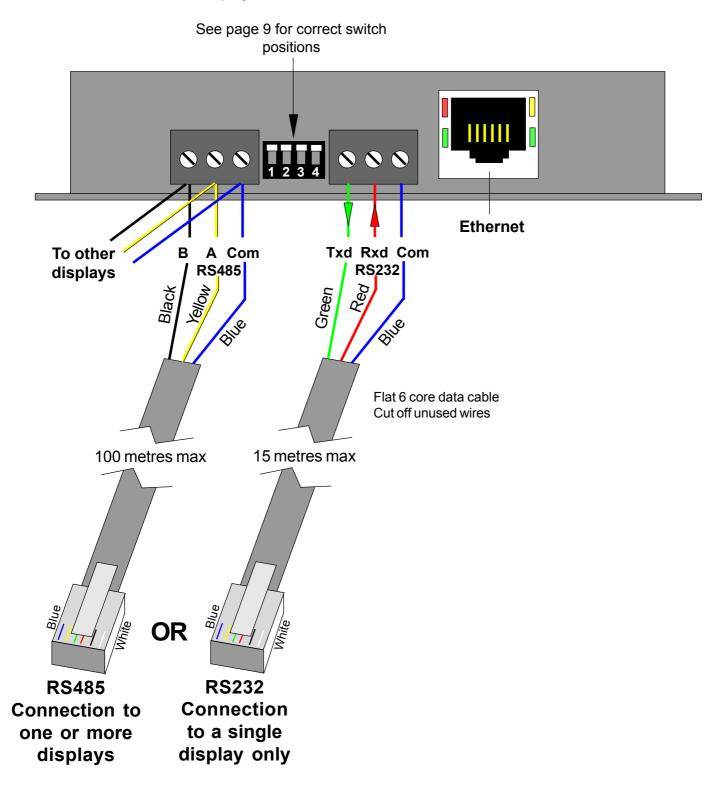


Connections to a message display

Choose the correct data port for your application. You can only use 1 chosen port.

RS232 port is best for short distance cabling to a display less than 15m away.

RS485 port is necessary for cabling distances over 15m and is necessary if you want to connect more than one display to the Ethernet converter.



20