



Intelligent Sensing Anywhere

Features

- Based on the world's smallest Ethernet Controller: Microchip's ENC28J60
- IEEE 802.3 Compliant: on-chip 10Mbps
- Ethernet Physical Layer Device (PHY) and Medium Access Controller (MAC) assuring reliable packet-data transmission/reception on an industry standard Ethernet Protocol
- Converts Modbus ASCII/ RTU into Modbus TCP
- Fully compatible with 10/100/1000 Base-T Networks
- Supports Half Duplex
- Simple configuration via webpage
- No software changes required
- Programmable Automatic Retransmit on Collision
- Programmable Automatic Rejection of Erroneous Packets
- Programmable Padding and CRC generation
- Programmable Receive Packet Filtering
- Status LED indicator
- Standard RJ45 plug for an easy network connection
- DIN Rail mountable case

Ethernet – RS485 Bridge

The Ethernet to RS 485 Bridge enables any serial RS 485 device to become Ethernet Network and Internet enabled. The present converter is an easy-to-use, cost-effective solution for the connection of RS 485 devices to TCP/IP networks.





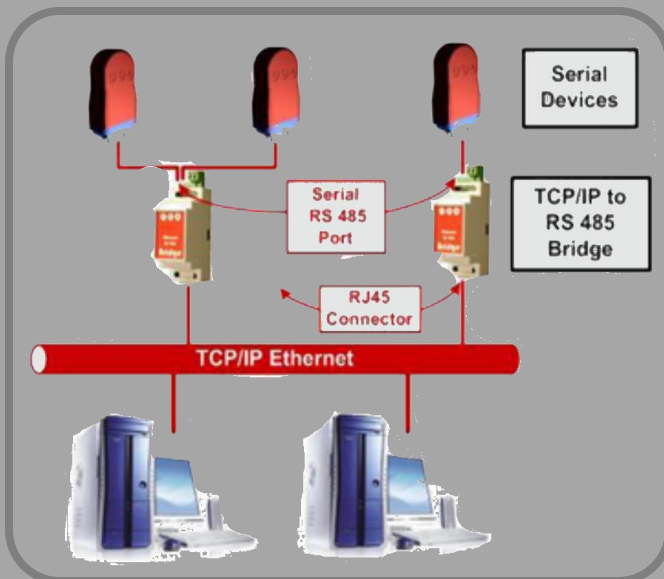
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Ethernet – RS485 Bridge

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Applications:

Home Automation
HTTP Web Servers
Ethernet to RS485 Interface Converter
Protocol Bridge Applications
Remote Command, Control and Firmware Updating
Application Monitoring, Control, Diagnostics and Data Logging



Electrical Characteristics

- Input Voltage, current: 8 ~ 35 VDC
- Input Current: 150mA
- Temperature range: -40°C up to 85°C

Modbus Network Configurations

- Modbus ASCII/RTU slave devices can communicate over a TCP/IP network to Modbus TCP/IP masters
- Modbus ASCII/RTU master devices can communicate over TCP/IP networks to Modbus ASCII/RTU master devices

Two Operating Modes

- **Virtual COM Mode:** a virtual connection is established between the PC and the IP address of the Bridge over the network. The device is seen as being directly connected to a physical COM port on the PC.
- **Direct IP Mode:** allows applications using TCP/IP socket programs to communicate directly with the serial ports on the Bridge which is configured as the TCP server. After a communication connection has been established between the socket program running on the PC and the Bridge's IP address, data is sent directly to and from the serial port on the Bridge.

