



REAL TIME AUTOMATION



EtherNet/IP Server / Modbus RTU Master

FEATURES

- Fully Compliant EtherNet/IP Server
- Fully User Configurable Modbus RTU Master
- EtherNet/IP Supports Up To 400 Bytes of Input Data
- EtherNet/IP Supports Up To 400 Bytes of Output Data
- Support for up to 31 Modbus RTU Devices
- Support Modbus Function Codes 1, 2, 3, 4, 6, 15, and 16
- Effortless Browser Based Configuration
- 10/100 Base-T Operation
- Includes Ethernet Device Management Tool

An Instant Device Converter™ Product

Move Your Modbus RTU Devices to an EtherNet/IP Client

Move Your Data Where You Want, When You Want, How You Want

The Smart Way To Move Modbus RTU Data To An EtherNet/IP Client

The 460ESMM moves registers and coils between a Modbus RTU network of Slave devices and an EtherNet/IP Client like a ControlLogix® PLC. There are thousands of Modbus RTU devices in automation systems. These devices include weigh scales, drives, barcode readers and sensors of every type imaginable.

With the 460ESMM you have a device that you can quickly deploy and easily configure to access and integrate these Modbus devices into your EtherNet/IP network.

Move Your Data Bi-directionally

With the 460ESMM module you can both write registers and coils to your Modbus RTU slave network and read from those RTU Slaves. Up to 200 Registers of data can be transferred from up to 31 Modbus RTU Slave devices.

Configure Your Data Transfer from a Web Page

All the data transfer is configurable using the embedded web server. You define the number of Modbus RTU Slave devices. You set one or more configurable groups of registers to transfer from each slave and in what order that those registers are transferred to the EtherNet/IP Client.

The 460ESMM is the Smart Connection solution for integrating a network of Modbus RTU Slave devices with an EtherNet/IP Client.

The Legend Begins

"It's likely that your business isn't industrial networking. And it shouldn't be. You make products, products that do wonderful things. Whatever it is that you make the process creates data. If you're a control engineer and your plants been around for more than a few years your plant floor is probably littered with devices that send out all kinds of data, and in most case data talking in a lot of different protocols. If you're an automation device developer you probably need to move your data into some other network. Either way, you've got a device conversion problem. You have devices that generate ASCII data, Modbus RTU, Ethernet TCP Data, DeviceNet data or some completely proprietary data and now you're the guy that has to move that data to some other network!"

*I feel your pain... and better than my sympathy I have a solution for you. You see while your business isn't moving data around the factory floor mine is. In fact it is all we have done for more than twenty years now. Our 460 series of Device Converters line is the culmination of those twenty years. You can now move all of your data, where you want, when you want and how you want. Best of all **THE HARDEST PART IS OPENING THE BOX**".*

John Rinaldi

It's Easy to Set Up

Sound complicated? It's not. Just Three Simple Steps!

ONE: Start by opening the web page for the device with Internet Explorer.

TWO: Edit the Modbus RTU Master and EtherNet/IP Server communication modules to connect to your system using our easy browser based configuration page.

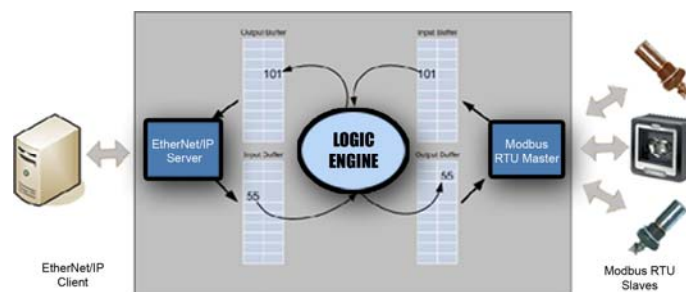
THREE: Set the IP Address, Subnet Mask, and Gateway Address to match your field setup and then connect our configured unit to your system.

Nothing complicated, and best of all it's browser driven!

NO SPECIAL SOFTWARE IS REQUIRED

How It Works:

The products in the Instant Device Converter product line contain an IEC standard control engine that moves your data from buffer to buffer. Input data from one network is moved to the output buffer of one or more other networks. Input data from those networks is moved to the output area of the other networks.



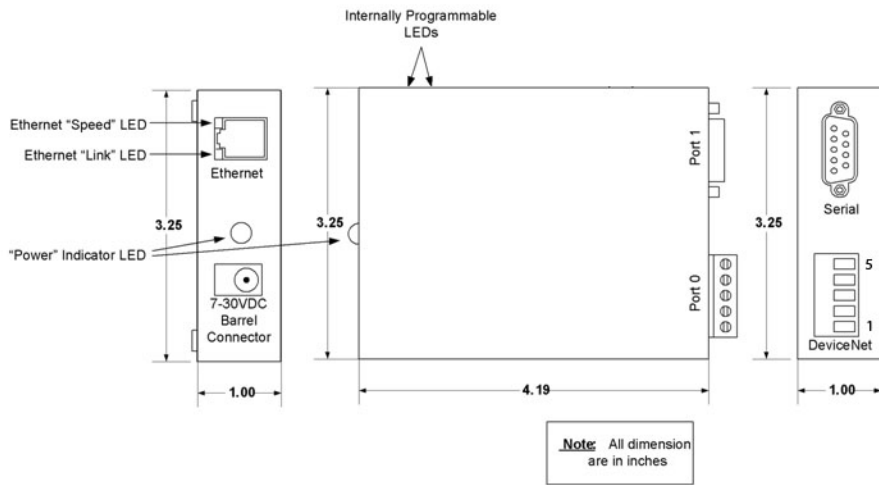
ENCLOSURE / HARDWARE	
Size	4.2" x 3.25" x 1"
Weight	5 oz.
Enclosure Type	Anodized Aluminum
Mounting	Din Rail
Connectors	Port 0: T-STRIP (RS232, RS485/RS422, CAN) Port 1: DB-9 (RS232, RS485/RS422, CAN) <i>**Only one RS232, RS485/RS422, or CAN port setting can be active per unit**</i> RJ45 10/100 Base-T (Ethernet) 2 Pin Barrel Connector
LEDs	Ethernet Link/Data, Ethernet Speed, Power, and two general purpose LEDs

ELECTRICAL/ENVIRONMENTAL/TOOLS	
Network Interface	10/100 Base-T with RJ-45 Connector
Power	8 V @ 230 mA to 28 V @ 80 mA
Maximum Serial Baud Rate	115K Baud
Device IP Address Management	IPSetup™ — automatically locates RTA Instant Device Converters
Operating Temperature	-40 C to 85 C
Certification	RoHS-Compliant, UL, CUL, CE Approvals



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Dimensions



Connector Pin-Outs

PORT 1 (DB9)				
Pin	RS-232	RS-485	RS-422	CAN
1	CD	-	-	-
2	RX	TX-	TX-	CANL
3	TX	-	RX+	-
4	DTR	-	-	-
5	GND	GND	GND	GND
6	DSR	-	RX-	-
7	RTS	TX+	TX+	CANH
8	CTS	-	-	-
9	RI	-	PWRIN	PWRIN

PORT 0 (TStrip)				
Pin	RS-232	RS-485	RS-422	CAN
1	GND	GND	GND	GND
2	RX	TX-	TX-	CANL
3	TX	TX+	TX+	SHEILD
4	RTS	RX-	RX-	CANH
5	CTS	RX+	RX+	PWRIN

CATALOG #	DESCRIPTION
460ESMM	EtherNet/IP Server / Modbus RTU Master Device Converter

SALES & SERVICE

PLACING YOUR ORDER

Orders can be placed 24 hours per day. You can place your order by faxing 262-439-4989 or emailing orders@rtaautomation.com.

TECHNICAL SUPPORT

Phone Support: 1-800-249-1612 during normal business hours
Email Support: Is available by emailing support@rtaautomation.com

Support for Other Industrial Networks

Versions of the **460 Line of Instant Device Converters** support a large number of industrial networks with more being added weekly. Every one of these is implemented using the simple web-based integration and configuration architecture found in all 460 Device Converters.

INDUSTRIAL NETWORK SUPPORTED			
ASCII RS232	Modbus RTU Slave	Raw TCP Client	EtherNet/IP Server
ASCII RS485	Modbus TCP Server	Raw TCP Server	EtherNet/IP Client
BACnet IP	Modbus RTU Master	CANopen Slave	DeviceNet Master
Modbus TCP Client	*** CALL ABOUT YOUR PROPRIETARY PROTOCOL ***		DeviceNet Slave

Proprietary Protocol Support

The **460 Instant Device Converters** can be customized for specific applications and proprietary communications. All 460 Instant Device Converters are based on an IEC 61131-3 Programming Engine. The engine supports Five worldwide, open standard programming languages providing maximum flexibility for controlling your data as it moves around your factory floor or building. Logic can be added to the Instant Device Converter using standard Ladder Logic, Structured Text, Sequential function Charts or Function Block Programming. You can do the Programming yourself or an RTA Application System Engineer can implement a highly tailored solution specific to your application.

For More Information:

1-800-249-1612
products@rtaautomation.com



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