460ESA

REAL TIME AUTOMATION

EtherNet/IP Server / ASCII

FEATURES

- *Fully Compliant EtherNet/IP Server*
- *Simple Mapping from an ASCII device to EtherNet/IP Assemblies*
- *Bi-directional Handshaking Protocol Avoids Data Loss*
- *Perfect for ASCII Devices like Barcode Readers & Scales*
- *Effortless Browser Based Configuration*
- *10/100 BaseT Operation*
- *Includes Ethernet Device Management Tool*
- *No Programming Required*

An Instant Device Converter™ Product

Move Your ASCII Data to Your EtherNet/IP Network

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

Get ASCII Strings Into Your EtherNet/IP PLC

The 460ESA moves data between ASCII devices and an EtherNet/IP Client. There are thousands of ASCII devices in automation systems. These devices include weigh scales, drives, barcode readers and sensors of every type imaginable.

With the 460ESA these devices can be quickly deployed, easily configured and rapidly integrated with your EtherNet/IP PLC, HMI or PC Application.

Make Your ASCII String Appear as an EtherNet/IP Server

Now, with the 460ESA you can capture all sorts of ASCII data as an EtherNet/IP Server and easily bring it into your PLC. The 460ESA lets you see your barcode, weigh data or measurement data as a series of consecutive EtherNet/IP input bytes.

Move Your Data Bi-directionally

You can both send data to your ASCII devices from an EtherNet/IP Client and also receive data from your ASCII slaves. Up to 255 Bytes of ASCII data can be transferred.

A handshaking sequence secures the data transfer and ensures that every ASCII message is transferred correctly.

Configure Your Data Transfer from a Web Page

All the data transfer is configurable using the embedded web server. You define the EtherNet/IP Client device address, ASCII baud rate, and parity.

The 460ESA is the Smart Connection solution for moving data between ASCII devices and 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 plant has been around for more than a few years your floor is probably littered with devices that send out all kinds of data and in most cases data comprised of many 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 other completely proprietary data and now you're the person that has to move that data to some other network!

I feel your pain… and rather than just my sympathy, I have a solution for you. You see, while your business may not be moving data around a factory floor ***mine is****. In fact, it's all that we have done for over twenty years now. Our 460 series of Device Converters 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 EtherNet/IP Server and ASCII communication modules to connect to your system using our easy browser based configuration page.

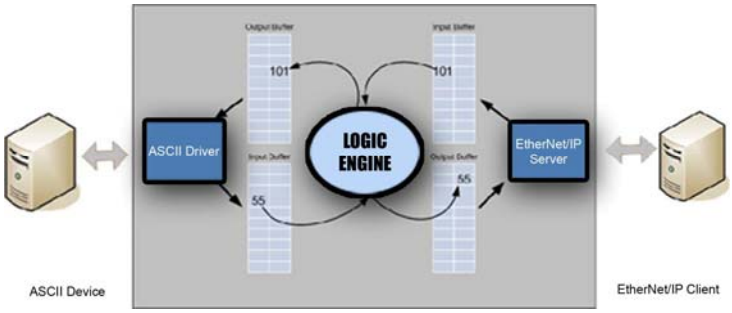
THREE: Set the IP Address, Subnet Mask, and Gateway Address to match your field setup and then connect our configured unit to your system.

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.

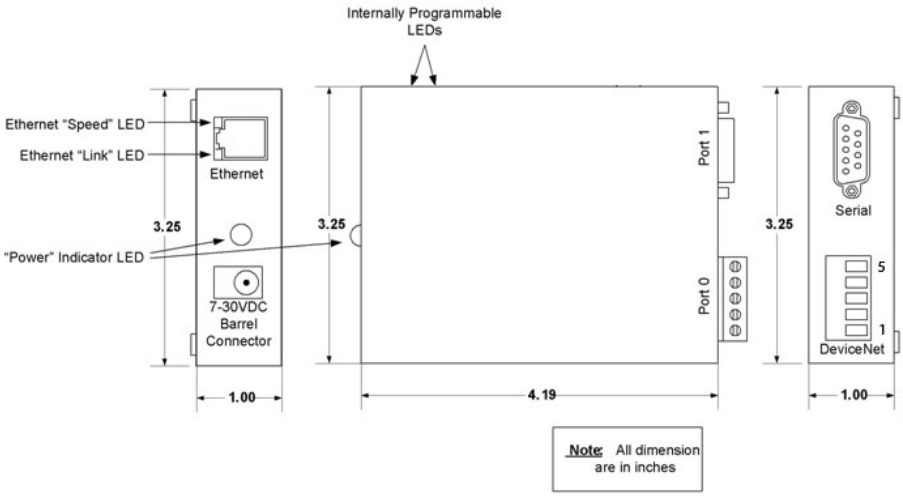


ENCLOSURE / HARDWARE	
Size	4.2" x 3.25" x 1"
Weight	5 oz.
Enclosure Type	Anodized Aluminum
Mounting	Din Rail
Connectors	Port 0: T-STRIP *(RS232,RS485/RS422,CAN)* Port 1: DB-9 *(RS232,RS485/RS422,CAN)* ***Only one RS232, RS485/RS422, or CAN port setting can be active per unit*** RJ45 10/100 Base-T (Ethernet) 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

REAL TIME AUTOMATION

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
460ESA	EtherNet/IP Server / ASCII Device Converter

Sales & Service

PLACING YOUR ORDER

Orders can be placed 24 hours per day. You can place your order by faxing 414-453-5125 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. Logix 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

REAL TIME AUTOMATION