



# REAL TIME AUTOMATION

## EtherNet/IP Server / BACnet/IP Server



### FEATURES

- Fully Compliant BACnet/IP Server
- Fully Compliant EtherNet/IP Server
- BACnet/IP Supports Up To 98 Analog Input and 98 Analog Output Objects
- BACnet/IP Supports Up To 64 Binary Input and 64 Binary Output Objects
- Send and Receive up to 400 Bytes of EtherNet/IP Data
- Effortless Browser Based Configuration
- 10/100 BaseT Operation
- Includes Ethernet Device Management Tool
- No Programming Required

## An Instant Device Converter™ Product

Move Your BACnet/IP Device Data To an EtherNet/IP Network

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

### The Smart Way To Move EtherNet/IP PLC Data to BACnet/IP

The 460ESBS moves data between a BACnet/IP Client and an EtherNet/IP PLC. Many Building Systems use Programmable Controllers to implement building control logic. Until now, it has been difficult and expensive to exchange data between a PLC and BACnet/IP enabled Building Automation Systems (BAS)

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

#### Eliminate Legacy Device Issues

You finally have a tool designed to save EtherNet/IP devices from the scrap pile. You can now take any legacy device and connect it to a BACnet/IP network. Save time, money and headaches by using proven legacy devices.

#### Move Your Data Bi-directionally

With the 460ESBS module you can both write data to your BACnet/IP Client Device and read from that BACnet/IP Client. Inputs from your BACnet/IP Client are concatenated and presented to an EtherNet/IP Client as EtherNet/IP data. Outputs from a BACnet/IP Client are distributed to an EtherNet/IP Client.

#### No Configuration Needed

Your data transfer is configured via your internet browser. You set up your PLC and the BACnet Analog Input and Output Properties. There is no software to download or code to futz with. It sounds simple, and it is; that's the point.

The 460ESBS is the Smart Connection solution for integrating a BACnet/IP Client device 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 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 Modbus TCP Server and BACnet/IP communication modules to connect to your system using our easy browser based configuration page.

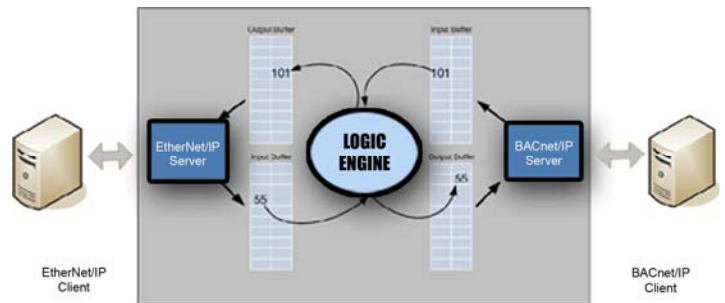
**THREE:** Set the IP Address, Subnet Mask, and Gateway Address to match your field setup and then connect our configured unit to your system.

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.

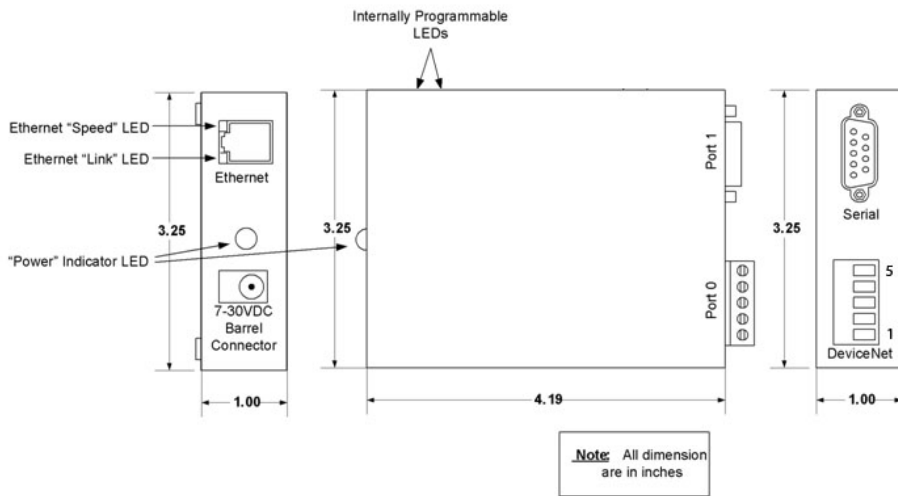


ENCLOSURE / HARDWARE	
Size	4.2" x 3.25" x 1"
Weight	5 oz.
Enclosure Type	Anodized Aluminum
Mounting	Din Rail
Connectors	Port 0: T-STRIP (RS232, RS485/RS422, CAN) Port 1: DB-9 (RS232, RS485/RS422, CAN) <i>**Only one RS232, RS485/RS422, or CAN port setting can be active per unit**</i> RJ45 10/100 Base-T (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	<b>IPSetup™</b> — automatically locates RTA Instant Device Converters
Operating Temperature	-40 C to 85 C
Certification	RoHS-Compliant, UL, CUL, CE Approvals



## 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
460ESBS	EtherNet/IP Server / BACnet/IP Server Device Converter

## Sales & Service

### PLACING YOUR ORDER

Orders can be placed 24 hours per day. You can place your order by faxing 262-439-4999 or emailing [orders@rtaautomation.com](mailto:orders@rtaautomation.com).

### TECHNICAL SUPPORT

**Phone Support:** 1-800-249-1612 during normal business hours  
**Email Support:** Is available by emailing [support@rtaautomation.com](mailto: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	<b>*** CALL ABOUT YOUR PROPRIETARY PROTOCOL ***</b>		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.



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## For More Information:

1-800-249-1612  
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