



REAL TIME AUTOMATION



EtherNet/IP Tag Client / BACnet/IP Server

FEATURES

- Fully Compliant BACnet/IP Server
- Fully User Configurable EtherNet/IP Tag Client
- BACnet/IP Supports Up To 150 Analog Input and 150 Analog Output Properties
- BACnet/IP Supports Up To 1600 Binary Input and 1600 Binary Output Properties
- Seamless Data Transfer Between Rockwell PLCs and Building Automation Systems
- User Configurable Map from PLC Tags / Files to BACnet Objects
- Support for Logix, PLC5E, 5/05, and MicroLogix PLCs
- Effortless Browser Based Configuration
- 10/100 Base-T Operation
- Includes Ethernet Device Management Tool
- No Programming Required

An Instant Device Converter™ Product

Easily Move Your BACnet/IP Device Data To Any Rockwell PLC

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

Connect Your Rockwell Programmable Controller To Your Building Automation System

Many Building Systems use Programmable Controllers to implement building control logic. Until now it has been difficult and expensive to exchange data between Rockwell (RA) Programmable Controllers and BACnet/IP enabled Building Automation Systems (BAS). For some RA PLCs there was not even a device that would connect it to a Building Automation System.

Connect Your Legacy PLC5E and SLC 5/05 To Your BAS

The 460ETCBS changes all that and gives you an amazing tool to quickly and easily integrate your BACnet/IP enabled BAS with any Allen Bradley PLC. Even the legacy PLC5Es and SLC 5/05s. With this small, din rail module you can now use BACnet/IP Analog Properties to access the registers or tags in your Allen Bradley PLC. No Ladder Logic or other programming necessary.

The 460ETCBS exists for one purpose and one purpose only, to move data between a BACnet system and a RA PLC. This means that you never have to deal with (or pay for) additional features you don't need. You won't have to search through a few-hundred page manual or burn the midnight oil to set up this unit. The 460ETCBS is designed for a single purpose: to move data from your BAS to an Allen Bradley PLC.

What Makes it so Simple to Use?

Your data transfer is configured via your internet browser. You define the Tags and/or File Names in your PLC and the BACnet Analog Input and Output Properties for each of those Tags and/or File Names. There is no software to download or code to futz with. It sounds simple and it is; that's the point!

The 460ETCBS is the smart and efficient connection solution for moving data from BACnet/IP data to Micrologix, PLC5E and SLC 505 PLCs.

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 Tag Client and BACnet/IP Server communication modules to connect to your system using our easy browser based configuration page.

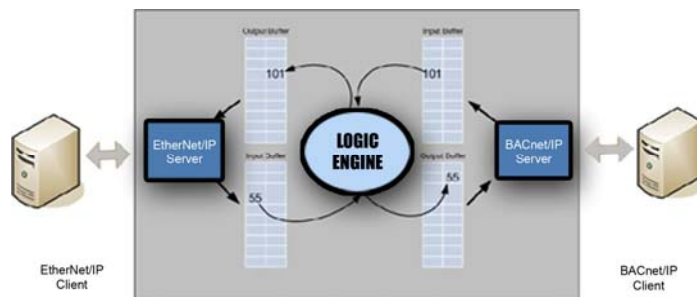
THREE: Set the IP Address, Subnet Mask, and Gateway Address to match your field setup and then connect our configured unit to your system.

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.



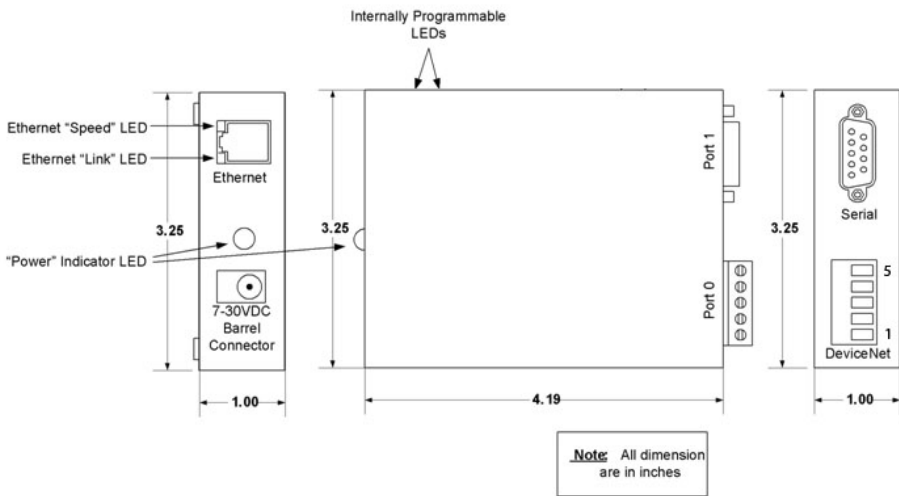
| ENCLOSURE / HARDWARE | |
|----------------------|--|
| Size | 4.2" x 3.25" x 1" |
| Weight | 5 oz. |
| Enclosure Type | Anodized Aluminum |
| Mounting | Din Rail |
| Connectors | Port 0: T-STRIP (RS232, RS485/RS422, CAN) Port 1: DB-9 (RS232, RS485/RS422, CAN) <i>**Only one RS232, RS485/RS422, or CAN 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 |
|-----------|---|
| 460ETCBS | EtherNet/IP Tag Client / BACnet/IP Server Gateway |

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 and more are being added. Every one of these are implemented using our simple web-based integration and configuration architecture found in all 460 Device Converters. Connect any number of protocols with the same easy integration and configuration the 460 Line of Device Converters is known for.

| 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.



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For More Information:

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