



**GATEWAY GUIDE
BY LOGICBUS**

ASCII TO ALLEN-BRADLEY PLC

Convert your ASCII data

The most agile way to convert data in ASCII format to an Allen Bradley Micrologix PLC, ControlLogix, CompactLogix PLC-5 and SLC5 / 05 via Ethernet / IP. Through a simple browser-based configuration you define the ASCII character string and then observe how it is delivered directly through a user-defined label or the location of the record in the data table of your PLC.

Do you need to send ASCII data from the PLC?

Simply complete and place the second label or record location with the message you want to send. When the gateway sees a length greater than zero it will process the data and send it to the serial device.

Only one entry label addressed to an exit label. Does not require extra instructions for entrances and exits.

 435NBX-N700-D ASCII to Allen Bradley PLC Gateway mounted on DIN rail		 435NBX-N700-P ASCII to Allen Bradley PLC Gateway mounted on panel	
DC Input Voltage	12 - 24 VDC	DC Input Voltage	12 - 24 VDC
Maximum Baud Rate	115 K Baud	Maximum Baud Rate	115 K Baud
Operating Temperature	-40 ° C a 85 ° C	Operating Temperature	-40 ° C a 85 ° C
Certification	RoHS-Compliant, UL, CUL, CE Approvals	Certification	RoHS-Compliant, UL, CUL, CE Approvals
Size	4.2 "x 3.25" x 1 "	Size	4.2 "x 3.25" x 1 "
Weight	5 oz	Weight	5 oz
Enclosure Type	Anodized Aluminum	Enclosure Type	Anodized Aluminum
Mounting	Din Rai	Mounting	Panel
LEDs	Ethernet Link/Data LED, Ethernet Speed LED, Power LED	LEDs	Ethernet Link/Data LED, Ethernet Speed LED, Power LED



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CONNECT USB TO AN ALLEN-BRADLEY PLC



USB to Allen-Bradley PLC Gateway

You have just found the easiest way to move data between a USB device and Allen-Bradley PLCs like ControlLogix, CompactLogix, PLC 5s, SLCs and MicroLogix. Effortlessly move data from any USB HID or Printer device like barcode readers, weigh scales, RFID Scanners or printers into your PLCs data table. Sure lots of companies offer gateways for these kinds of devices, but nobody offers one quite like this.

The 435USB is a USB to PLC gateway that, in Direct Tag Mode, writes data from USB devices directly into the data table of your Allen Bradley PLC. It's simple in function and easy to use by design. Actualiza las redes y conserva el legado de su hardware.

Upgrade Networks and Keep Your Legacy Hardware

Even though Ethernet is the standard, there is still an awful lot of ASCII devices and now those devices don't have a serial port—THEY HAVE A USB PORT. These low cost scales, barcode readers, RFID devices and a multitude of other units generate ASCII data that you need in your process. You know how to set them up, how to make them work and that they're reliable. Plus, you can probably get them at a really good price since they don't have all the fancy features of the Ethernet models. With the 435USB you can effortlessly integrate these devices with your Allen-Bradley PLCs.

435USB-NNAU-D		435USB-NNAU-P	
			
DC Input Voltage	8 DC @ 230 mA to 28 DC @ 80 mA	DC Input Voltage	8 DC @ 230 mA to 28 DC @ 80 mA
Maximum Baud Rate	-	Maximum Baud Rate	-
Operating Temperature	-40 °C a 85	Operating Temperature	-40 °C a 85
Certification	CE Approvals	Certification	CE Approvals
Size	3.88" x 2.57"	Size	3.88" x 2.57"
Weight	5.5 oz.	Weight	5.5 oz.
Enclosure Type	Anodized Aluminum	Enclosure Type	Anodized Aluminum
Mounting	Din Rail	Mounting	Panel
LEDs	Ethernet link/data LED, Ethernet speed LED, power LED, 1 Comm LED & 2 USB LEDs	LEDs	Ethernet link/data LED, Ethernet speed LED, power LED, 1 Comm LED & 2 USB LEDs

CONNECT ETHERNET TCP/IP DEVICES TO YOUR BACNET/IP SERVERS

Get Ethernet TCP/IP Data Into Your BACnet/IP Server Devices

The 460BCTCP moves data between up to 10 Ethernet TCP/IP devices and up to 32 BACnet/IP Server devices. It's a perfect tool to tie Ethernet TCP/IP devices into your BACnet/IP Building Automation System.

How Do I Use the 460BCTCP in My Application?

For most applications the mapping is very straight forward. Ethernet TCP/IP packets are mapped to BACnet objects in the BACnet/IP Servers. BACnet/IP data is mapped directly to your Ethernet TCP/IP devices. The only additional piece required for BACnet is adding Meta data which is nothing more than an ASCII description of each object. No other deep understanding of either protocol is required to configure the gateway.

460BCTCP-N34-D



DC Input Voltage	8 VDC @ 230mA to 28 VDC @ 80 mA
Maximum Baud Rate	115K baud
Operating Temperature	-40 C to 85 C
Certification	RoHS-Compliant, UL, CUL, CE Approvals, Class I Div 2
Size	4.2" x 3.25" x 1"
Weight	7 oz
Enclosure Type	Anodized Aluminum
Mounting	Din rail or panel mount
LEDs	Ethernet link/data LED, Ethernet speed LED, power LED, & 2 general purpose LEDs on side



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CONNECT ETHERNET TCP/IP DEVICES TO YOUR BACNET/IP SERVERS

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460BCTCP-N34-D



DC Input Voltage	8 VDC @ 230mA to 28 VDC @ 80 mA
Maximum Baud Rate	115K baud
Operating Temperature	-40 C to 85 C
Certification	RoHS-Compliant, UL, CUL, CE Approvals, Class I Div 2
Size	4.2" x 3.25" x 1"
Weight	7 oz
Enclosure Type	Anodized Aluminum
Mounting	Din rail or panel mount
LEDs	Ethernet link/data LED, Ethernet speed LED, power LED, & 2 general purpose LEDs on side

CONNECT ETHERNET/IP DEVICES TO A MODBUS TCP/IP CONTROLLER

The Smart Way To Move EtherNet/IP Adapter Data To a Modbus TCP Controller

The 460ECMS moves data between up to 32 EtherNet/IP and a Modbus TCP/IP Client. Modbus is still the catch all protocol. It's dirt simple and been around forever which means there is huge base of users and legacy systems supporting Modbus. With the 460ECMS you now have a great tool to integrate newer EtherNet/IP devices into these systems.

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

How Does the 460ECMS Work?

Up to 496 bytes of Ethernet/IP data can be mapped in each direction from up to 32 devices. Once the data is manually entered for each EtherNet/IP connection the data is automatically mapped by the gateway to Modbus TCP/IP.

460ECMS-N34-D



DC Input Voltage	8 VDC @ 230mA to 28 VDC @ 80 mA
Maximum Baud Rate	115K baud
Operating Temperature	-40 C to 85 C
Certification	RoHS-Compliant, UL, CUL, CE Approvals, Class I Div 2
Size	4.2" x 3.25" x 1"
Weight	7 oz
Enclosure Type	Anodized Aluminum
Mounting	Din rail or panel mount
LEDs	Ethernet link/data LED, Ethernet speed LED, power LED, & 2 general purpose LEDs on side



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CONNECT MODBUS TCP/IP DEVICES TO AN ALLEN-BRADLEY PLC

Get Your Modbus TCP/IP Server Devices Connected Directly to the Data Table of your Allen-Bradley PLC

The 460ETCMC moves data between up to 32 Modbus TCP/IP Server devices and up to 5 different Allen-Bradley PLCs. It's a simple tool that allows you to use the plethora of cost effective Modbus TCP/IP devices available in your Allen-Bradley PLCs.

How Does the Data Move In and Out of the PLC?

You allocate two areas of tags or register blocks in your Allen-Bradley PLC. One area is a user defined set of write only tags or register blocks accepting data from your Modbus TCP/IP devices. The other area is full of read only tags or register blocks to send data to your Modbus TCP/IP devices. You directly map Modbus TCP/IP register and coil data into read and write locations in the data table of your Allen-Bradley PLC.

460ETCMC-N34-D		460ETCMC-N34-P	
DC Input Voltage	8 DC @ 230 mA to 28 DC @ 80 mA	DC Input Voltage	8 DC @ 230 mA to 28 DC @ 80 mA
Maximum Baud Rate	115 K baud	Maximum Baud Rate	115 K baud
Operating Temperature	-40 °C a 85	Operating Temperature	-40 °C a 85
Certification	RoHS-Compliant, UL, CUL, CE Approvals, Class I Div 2	Certification	RoHS-Compliant, UL, CUL, CE Approvals, Class I Div 2
Size	4.2" x 3.25" x 1"	Size	4.2 "x 3.25" x 1 "
Weight	7 oz.	Weight	5 oz.
Enclosure Type	Anodized Aluminum	Enclosure Type	Anodized Aluminum
Mounting	Din rail or panel mount	Mounting	Din rail or panel mount
LEDs	Ethernet link/data LED, Ethernet speed LED, power LED, & 2 general purpose LEDs on side	LEDs	Ethernet link/data LED, Ethernet speed LED, power LED, & 2 general purpose LEDs on side



CONNECT MODBUS RTU SLAVES TO AN ALLEN-BRADLEY PLC

Get your Modbus RTU Slave Devices Connected Directly to the Data Table of your Allen-Bradley PLC

The 460ETCMM moves data between up to 32 Modbus RTU Slave devices and up to 5 different Allen-Bradley PLC's. It's the perfect tool to help save legacy Modbus RTU devices from the scrap pile and also allows you to use the plethora of Modbus RTU devices available in your Allen-Bradley PLC architectures.

How Does the Data Move In and Out of the PLC?

You allocate two areas of tags or register blocks in your Allen-Bradley PLC. One area is a user defined set of write only tags or register blocks accepting data from your Modbus RTU devices. The other area is full of read only tags or register blocks to send data to your Modbus RTU devices. You directly map Modbus RTU register and coil data into read and write locations in the data table of your Allen-Bradley PLC.

460ETCMM-N34-D		460ETCMM-N34-P	
			
DC Input Voltage	8 DC @ 230 mA to 28 DC @ 80 mA	DC Input Voltage	8 DC @ 230 mA to 28 DC @ 80 mA
Maximum Baud Rate	115 K baud	Maximum Baud Rate	115 K baud
Operating Temperature	-40 °C a 85	Operating Temperature	-40 °C a 85
Certification	RoHS-Compliant, UL, CUL, CE Approvals, Class I Div 2	Certification	RoHS-Compliant, UL, CUL, CE Approvals, Class I Div 2
Size	4.2 "x 3.25" x 1 "	Size	4.2 "x 3.25" x 1 "
Weight	7 oz.	Weight	5 oz.
Enclosure Type	Anodized Aluminum	Enclosure Type	Anodized Aluminum
Mounting	Din rail	Mounting	Panel
LEDs	Ethernet link/data LED, Ethernet speed LED, power LED, & 2 general purpose LEDs on side	LEDs	Ethernet link/data LED, Ethernet speed LED, power LED, & 2 general purpose LEDs on side



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CONNECT PROFIBUS TO AN ALLEN-BRADLEY PLC

Get Your Profibus Controller Connected Directly to the Data Table of your Allen-Bradley PLC

The 460ETCPBS moves data between a Profibus Controller device and 1-5 Allen-Bradley PLCs.

With the 460ETCPBS you are making a direct connection between Profibus Controller data and user defined Tags or Registers in the data table of your Allen-Bradley PLC. There is no polling from the PLC or Ethernet/IP scan lists to arrange. This is a direct connection between bytes in your Profibus Master and the data table of your Allen Bradley PLC.

How Does the Data Move In and Out of the Allen-Bradley PLC?

You allocate two areas of tags or register blocks in your Allen-Bradley PLC. One area is a user defined set of write only tags or register blocks accepting data from your Profibus device. The other area is full of read only tags or register blocks to send data to your Profibus device. You directly map up to 10 Profibus Slots of up to 244 bytes in and out of the data table of your Allen-Bradley PLC.

460ETCPBS-N70PB-D



DC Input Voltage	8 VDC @ 230mA to 28 VDC @ 80 mA
Maximum Baud Rate	115K baud
Operating Temperature	-40 C to 85 C
Certification	RoHS-Compliant, UL, CUL, CE Approvals
Size	4.4" x 3.87" x 1.15"
Weight	8.5 oz
Enclosure Type	Anodized Aluminum
Mounting	Din rail or panel mount
LEDs	Ethernet link/data LED, Ethernet speed LED, power LED, & 2 general purpose LEDs on side

CONNECT MODBUS RTU/ASCII DATA

Manipulate Modbus RTU Slave Data Moving to a Modbus RTU Master

The 460MMMRS moves data between up to 32 Modbus RTU/ASCII Slave or Modbus ASCII devices and a Modbus RTU/ASCII Master. This is the perfect tool to connect more than 32 slave devices to a master, add scaling to data as it passes or move data between Modbus RTU and Modbus ASCII devices.

With the 460MMMRS Register and Coil data can freely move between any devices connected to the gateway.

How do I use 460MMMRS-N34 in my application?

99% of the time the answer is you don't. Modbus RTU Masters are designed to talk with multiple Slave devices. The 460MMMRS is designed for those 1% of times when you have to manipulate your data, slow down the flow of data, allow a Master to handle more Slaves than it supports or Move data from Modbus ASCII to Modbus RTU.

460MMMRS-N34-D



DC Input Voltage	8 VDC @ 230mA to 28 VDC @ 80 mA
Maximum Baud Rate	115K baud
Operating Temperature	-40 C to 85 C
Certification	RoHS-Compliant, UL, CUL, CE Approvals, Class I Div 2
Size	4.2" x 3.25" x 1"
Weight	7 oz
Enclosure Type	Anodized Aluminum
Mounting	Din rail
LEDs	Ethernet link/data LED, Ethernet speed LED, power LED, & 2 general purpose LEDs on side



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CONNECT A MODBUS RTU MASTER TO A SERIAL ASCII SYSTEM

Deliver Data from your Modbus RTU Master to an ASCII Based System or Controller

The 460M RSA moves data between a Modbus RTU Master device and Serial ASCII. It's a great tool to connect Modbus RTU controllers into your PC or embedded applications that support serial ASCII data.

How Does it Work?

Register and coil data from your Modbus RTU Master is concatenated in an ASCII string of data and delivered over the serial port. Data from ASCII device can be parsed into up to 50 segments. Each segment can be assigned a data type and then delivered to a user defined register and coil locations on Modbus.

460M RSA-N700-D



DC Input Voltage	8 VDC @ 230mA to 28 VDC @ 80 mA
Maximum Baud Rate	115K baud
Operating Temperature	-40 C to 85 C
Certification	RoHS-Compliant, UL, CUL, CE Approvals, Class I Div 2
Size	4.2" x 3.25" x 1"
Weight	7 oz
Enclosure Type	Anodized Aluminum
Mounting	Din rail
LEDs	Ethernet link/data LED, Ethernet speed LED, power LED, & 2 general purpose LEDs on side

CONNECT DEVICENET SLAVES TO PROFINET IO

Get Your Profinet IO Controller Connected to your DeviceNet Slaves

The 460PSDM moves data between a Profinet IO Controller and a network of up to 32 DeviceNet Slave devices. With the 460PSDM you are making a direct connection between DeviceNet data and user defined slots in your Profinet IO Controller.

How Do You Map the Data?

DeviceNet Slave data will be mapped into 10 Profinet IO Slots. Each Slot will be assigned a typed of Int8, int16, int32, int64, Uint8, Uint16, Uint32, Uint64, float, double, binary8, binary16, binary32, or Short String. The Slot can consist of up to 400 bytes of data per Slave from your DeviceNet Slave devices. When writing from your Profinet IO Controller to your DeviceNet Slaves device there will be up to 10 Slots each defined by the same types. Up to 1280 bytes of data in those Slots can be mapped to your DeviceNet Slaves as DeviceNet Data.

460PSDM-N34-D



DC Input Voltage	8 VDC @ 230mA to 28 VDC @ 80 mA
Maximum Baud Rate	115K baud
Operating Temperature	-40 C to 85 C
Certification	RoHS-Compliant, UL, CUL, CE Approvals, Class I Div 2
Size	4.2" x 3.25" x 1"
Weight	7 oz
Enclosure Type	Anodized Aluminum
Mounting	Din rail
LEDs	Ethernet link/data LED, Ethernet speed LED, power LED, & 2 general purpose LEDs on side



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ASCII ETHERNET TCP/IP TO ALLEN-BRADLEY PLC

Moving Ethernet TCP/IP to a PLC Made Easy

There are a ton of perfectly good scales, barcode readers, printers and display devices that communicate with TCP data. This is equipment that you've used for a long time. You know how to set it up, how to make it work and that it's reliable.

The problem is that you still have to connect these devices into your Allen Bradley PLC. That means writing and testing plc logic. Not hard – just another task to do and more code to support. But there is a better way, a much better way. If you could move the data right into the PLCs registers it would save you time, money and a pile of headaches.

That's the device we have developed for you. It quickly and easily moves Barcode data, Weigh Scale data and other TCP device data to Allen Bradley PLCs. The 490NBX moves your raw TCP data to a PLC with little or no delay. Milliseconds after receiving your raw TCP data it is transferred to your user-specified tag in the PLC. Simply configure the input data format, the IP Address of the PLC and a PLC tag using a very simple browser interface and you are ready to run. No standalone or custom software is required.

490NBX-N700-D



DC Input Voltage	12 - 24 VDC
Maximum Baud Rate	115K baud
Operating Temperature	-40 C to 85 C
Certification	RoHS-Compliant, UL, CUL, CE Approvals
Size	3.88" x 2.57" x 1.06"
Weight	5.5 oz.
Enclosure Type	Anodized aluminum
Mounting	Din rail or panel mount
LEDs	Power LED & 2 general purpose LEDs on side

CONNECT MODBUS RTU SLAVES TO AN ETHERNET/IP PLC

The Smart Way To Move Modbus RTU Registers and Coils To an Ethernet/IP Client

The 460ESMM connects up to 32 Modbus RTU slaves to an Ethernet/IP controller. It's the perfect tool to save legacy Modbus RTU devices from the scrap pile and give you the ability to utilize the huge variety of Modbus RTU devices available in your Ethernet/IP Architectures.

How Do I Use the 460ESMM in My Application?

For Most applications the mapping is very straight forward. Modbus Register and Coil data is mapped to Ethernet/IP IO data blocks. Ethernet/IP data is mapped directly to your Modbus RTU Slaves. Up to 480 bytes of data can be moved in each direction between Modbus RTU and Ethernet/IP.

460ESMM-N34-D



DC Input Voltage	8 VDC @ 230mA to 28 VDC @ 80 mA
Maximum Baud Rate	115K baud
Operating Temperature	-40 C to 85 C
Certification	RoHS-Compliant, UL, CUL, CE Approvals, Class I Div 2
Size	4.2" x 3.25" x 1"
Weight	7 oz
Enclosure Type	Anodized Aluminum
Mounting	Din rail or panel mount
LEDs	Ethernet link/data LED, Ethernet speed LED, power LED, & 2 general purpose LEDs on side



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CONNECT MODBUS TCP/IP SERVERS TO ETHERNET TCP/IP

Get Data from Modbus TCP/IP Servers into your Ethernet TCP/IP Devices

The 460MCTCP moves data between up to 32 Modbus TCP/IP Servers and an Ethernet TCP/IP device.

With the 460MCTCP you have a tool to help you map Modbus TCP/IP device data into an Ethernet TCP/IP application. You can also capture Ethernet TCP/IP commands and write them to your Modbus TCP/IP Server devices.

How Do You Map the Data?

Up to 200 bytes of Ethernet TCP/IP data will be mapped into your Modbus TCP/IP Servers. Ethernet TCP/IP data is mapped directly to Registers and Coils in your Modbus TCP/IP Servers. When writing from your Modbus TCP/IP Servers to your Ethernet TCP/IP devices, up to 200 bytes of Modbus TCP/IP output data will be viewed as Ethernet TCP/IP data.

460MCTCP-N34-D



DC Input Voltage	8 VDC @ 230mA to 28 VDC @ 80 mA
Maximum Baud Rate	115K baud
Operating Temperature	-40 C to 85 C
Certification	RoHS-Compliant, UL, CUL, CE Approvals, Class I Div 2
Size	4.2" x 3.25" x 1"
Weight	7 oz
Enclosure Type	Anodized Aluminum
Mounting	Din rail or panel mount
LEDs	Ethernet link/data LED, Ethernet speed LED, power LED, & 2 general purpose LEDs on side