

EtherNet/IP™ to Allen-Bradley® DH+ or Remote I/O Gateway AN-X-AB-DHRIO

The EtherNet/IP™ to Allen-Bradley® Data Highway Plus or Remote I/O Gateway provides solutions for some commonly encountered issues where Allen-Bradley PLC5 and SLC processors are connected to a Data Highway Plus or Remote I/O network. When used as a Data Highway Plus bridge this gateway enables HMIs, RSLogix™ 5, and RSLogix™ 500 software to connect and communicate to the processors. In addition to enabling remote programming or monitoring of these PLCs or SLCs this bridge can enable an Allen-Bradley CompactLogix® controller to communicate to the PLC5s and SLCs on the Data Highway Plus network. When this gateway is configured as a Remote I/O scanner it enables a Programmable Automation Controller (PAC) to control a legacy Remote I/O system facilitating processor upgrades. This gateway allows a phased approach to be used when upgrading or replacing legacy PLC5 or SLC controllers. The gateway provides automatic detection of the Remote I/O baud rate and creation of the Remote I/O racks. Once Block Transfers are configured the Auto-Configuration feature creates RSLogix™ 5000 tags reducing engineering effort. Once the new PAC is commissioned the legacy I/O can be upgraded one module or one rack at a time as scheduled downtime is available. This gateway minimizes the risk of excessive downtime when upgrading legacy Remote I/O systems.



Data Highway Plus Features:

- ◆ Enables combinations of HMIs, programming terminals, and/or processors on an EtherNet/IP network access to the legacy processors on a DH+ network
- ◆ This gateway configures through a web browser (No special configuration software required)
- ◆ DH+ Station address is configurable from 0-77 (octal)
- ◆ Supports all DH+ baud rates (57.6, 115.2 and 230.4 Kbaud)
- ◆ DH+ network diagnostics, including a station listing all of all active nodes, are available through the web browser
- ◆ Multi-colored LED indicates the status of the DH+ network



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Remote I/O Scanner Features:

- ◆ Auto-Configuration utility discovers baud rate and maps racks reducing configuration errors
- ◆ Partial Rack support
- ◆ All Remote I/O baud rates are supported (57.6, 115.2, and 230.4 Kbaud)
- ◆ Auto-Configuration files are editable or customizable after their initial creation providing customization / flexibility
- ◆ Supports offline configuration through a CSV file
- ◆ Monitoring tools are provided via the web interface to monitor input and output values
- ◆ Web pages include Remote I/O diagnostics for Block Transfers, any configured racks, and the Remote I/O network
- ◆ Supports up to 32 Remote I/O adapters, and rack numbers 0 – 76 (Octal)
- ◆ Supports up to 15 I/O connections to a ControlLogix processor for I/O
- ◆ Each connection can have a unique RPI from 5 - 750 mSec
- ◆ Auto-Configuration feature maps the discovered Remote I/O points into ControlLogix I/O connections
- ◆ User can specify an Alias Base tag to be used in mapping the pre-defined I/O
- ◆ Multi-colored LED indicates the status of the Remote I/O network connection
- ◆ Remote I/O Rack and Network diagnostics can be mapped into the ControlLogix Processor using an additional connection

Hardware Specifications

Specification	Description
Ports	1 RJ45 10/100 Mbps Ethernet port 1 Phoenix 3-pin power connector 1 Phoenix 3-pin DH+ or Remote I/O connector
Typical Power Consumption	300 mA @ 12 Vdc or 150 mA @ 24 Vdc
Maximum Power Dissipation	3.6W
Operating Temp	32°F to 122°F (0 °C to 50 °C)
Storage Temperature	-40°F to 185°F (-40 °C to 85 °C)
Dimensions	107 mm x 126 mm x 34 mm (4.18 in x 4.97 in x 1.33 in) not including connectors
Humidity	5% to 95% RH, with no condensation

Desktop use or DIN Rail Mountable

Ordering Information

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How to Contact Us: Sales and Support

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