



RTA PROTOCOL GATEWAYS FOR SCHNEIDER ELECTRIC DEVICES

REAL TIME AUTOMATION PROTOCOL GATEWAY MODULES

Real Time Automation (RTA) protocol gateways are hardware modules that translate data from one protocol to another. Sitting between industrial networks, they bridge communication from otherwise incompatible devices while offloading protocol management from PLCs, lowering CPU overhead and ensuring logic stays focused on process control.

Because RTA protocol gateways are a hardware-based solution, there is no need to write complex ladder logic or custom drivers, download proprietary software or pay ongoing licensing or subscription fees. Configuration is done via a web browser. The gateway handles all protocol conversion and data transformations and transaction triggering, delivering clean, usable data directly to PLC data tables.

How RTA protocol gateways work:

- **Source Data Access:** RTA protocol gateways continuously poll the network, or accept unsolicited data, according to your configured rules, saving a real-time copy of the data in its internal memory
- **Instant Data Retrieval:** When a destination device on the opposing network requests data, or a gateway trigger event occurs, the RTA protocol gateway immediately responds with or writes data from the local cache
- **Bidirectional Communication:** The RTA protocol gateway manages bidirectional communication, allowing either network to act as the sender or receiver and delivering the payload to the target device on the opposing network
- **Bridging Legacy and Modern Networks:** Multiple hardware variants allow RTA protocol gateway modules to integrate disparate networks using serial-to-serial, serial-to-Ethernet or Ethernet-to-Ethernet connections

EXPAND THE INTEROPERABILITY OF SCHNEIDER ELECTRIC DEVICES

RTA protocol gateways expand the interoperability of Schneider Electric devices by facilitating seamless integration into major industrial networks. No longer are customers restricted to a single protocol or required to write custom drivers, retain specialized programming skills or re-engineer their architecture.

With a simple, drop-in protocol gateway, Schneider Electric equipment gains expanded interoperability with solutions for Modbus RTU, Modbus TCP, EtherNet/IP, PROFINET, BACnet MS/TP, BACnet/IP and other serial and Ethernet-based protocols.

SUPPORTED SCHNEIDER ELECTRIC DEVICES

RTA has already helped several customers integrate their Schneider Electric Modbus devices into other industrial networks including Allen-Bradley PLCs and Building Automation Systems (BAS) with BACnet/IP and BACnet MS/TP. Our growing library of Modbus data mapping templates supports the following devices:

SCHNEIDER ELECTRIC MODBUS PLCs AND PROCESS CONTROLLERS

Product Series	Description	Supported Models
Twido Series	Compact Programmable Logic Controllers	Twido PLCs
Eurotherm Series	Precision Process & Temperature Controllers	Eurotherm 3504

SCHNEIDER ELECTRIC MODBUS POWER MONITORING AND ELECTRICAL EQUIPMENT

Product Series	Description	Supported Models
PowerLogic PM Series	Power & Energy Meters	PM210, PM710, PM800, PM820, PM850, PM870, PM1200, PM5330, PM5350
PowerLogic ION Series	Power Quality & Revenue Meters	ION6200, ION7300, ION7350, ION7550, ION7650
PowerLogic CM Series	Circuit Monitors	CM200, CM4200, CM4250
Enercept Series	Submetering Power Transducers	Basic 3020
MicroLogic Series	Electronic Trip Units	6.0H
PowerPact Series	Molded Case Circuit Breakers	PowerPact Family

SCHNEIDER ELECTRIC MODBUS UNINTERRUPTIBLE POWER SUPPLIES (UPS)

Product Series	Description	Supported Models
Symmetra Series	Modular Three-Phase UPS	Symmetra PX, InfraStruxure Symmetra 3P
Galaxy Series	Three-Phase Facility & Data Center UPS	Galaxy 3000, Galaxy VM
Galaxy EPS Series	High-Capacity Industrial UPS	Galaxy EPS6000, Galaxy EPS7000, Galaxy EPS8000
MGE Galaxy Series	Enterprise Facility UPS	MGE Galaxy 5000, MGE Galaxy 5500

SCHNEIDER ELECTRIC MODBUS INROW COOLING AND ENVIRONMENTAL CONTROLS

Product Series	Description	Supported Models
InRow RC Series	Chilled Water Cooling	ACRC30x, ACRC500
InRow RD Series	Direct Expansion Air Cooling	ACRD100, ACRD500
InRow Precision Series	High-Capacity Environmental Cooling	ACRP100, ACRP500

PROTOCOL DATA MAPPING TEMPLATES

RTA already supports a wide range of customers in integrating their existing Schneider Electric Modbus devices into other industrial networks via data mapping templates.

Data mapping templates save a customer's application-specific data points, names, mapping and manipulation configuration settings for repeated use, whether deploying multiple protocol gateways with identical setups, pulling data from several identical Schneider Electric devices or avoiding manually mapping high-density, complex Modbus register lists. Data maps can be manually loaded to RTA protocol gateways in existing installations or pre-loaded and delivered with data mappings already configured.

In addition, RTA can also create custom part numbers for Schneider Electric devices that pre-set custom configuration settings, allowing protocol gateways to be shipped, installed and integrated with zero additional setup.

RTA SUPPORTED PROTOCOLS

RTA can map data between any RTA-supported protocols including:

- Allen-Bradley PLCs
- ASCII
- Amazon Web Services (AWS) IoT Core
- BACnet MS/TP
- BACnet/IP
- DeviceNet
- DF1
- DH+
- Ethernet TCP
- EtherNet/IP
- Microsoft Azure
- Modbus RTU
- Modbus TCP
- MQTT
- OPC UA
- PROFIBUS
- PROFINET
- Siemens S7 PLC
- SNMP
- USB
- Web Interface

PROTOCOL GATEWAY HARDWARE MODULE COMPARISON

	N2E	NNA4	NNA1	N700	N34
Dimensions	5.40" x 3.83" x 1.19"	3.88" x 2.57" x 1.06"	3.88" x 2.57" x 1.06"	4.2"x 3.25" x 1"	4.2" x 3.25" x 1"
Serial Ports	Port 0: 7-Pin Terminal Block	Port 0: 5-Pin Terminal Block (Pins 1, 2, 3) Port 1: 5-Pin Screw Terminal Block (Pins 3, 4, 5)	Port 0: 5-Pin Terminal Block (Pins 1, 2, 3) Port 1: 5-Pin Screw Terminal Block (Pins 3, 4, 5)	Port 0: Male DB9 Port 1: Male DB9	Port 0: 5-Pin Terminal Block Port 1: Male DB9
Modes & Limits	1 x RS-232 1 x RS-485 1 x RS-422	2 x RS-485	Single port use: 1 x RS-232 or 1 x RS-232 or 1 x RS-485	2 x RS-232 1 x RS-485 1 x RS-422	1 x RS-232 2 x RS-485 1 x RS-422 1 x CAN
Ethernet Ports	2 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
Power	12-24 VDC	12-24 VDC	12-24 VDC	12-24 VDC	12-24 VDC
Connector	2-Pin Screw Terminal Block	2-Pin Screw Terminal Block	2-Pin Screw Terminal Block	2-Pin Screw Terminal Block	2-Pin Screw Terminal Block (Pins 1 and 5) or Barrel Connector
Certifications	UL, C/UL, RoHS Compliance, Class1Div2	UL, C/UL, CE, RoHS Compliance	UL, C/UL, CE, RoHS Compliance	UL, C/UL, CE, FCC, RoHS Compliance	UL, C/UL, CE, FCC, RoHS Compliance, Class1Div2

WHY RTA?

RTA delivers reliable protocol gateways and connectivity solutions that simplify integration, maximize uptime and keep your operations running. Built for industrial environments. Backed by engineers who care.



SAME-DAY SHIPPING

Orders ship the same day when placed by 2:00 PM CT.



5-YEAR WARRANTY

Industry-leading 5-year warranty for long-term peace of mind



ALWAYS IN STOCK

Thousands of gateways in stock and ready to ship



ENGINEERD SUPPORT

Real engineers, real answers. We are here to help

TALK TO YOUR LOCAL CONNECTIVITY EXPERT: