

## Serial ASCII to MQTT Broker

### FEATURES

- Parse ASCII/HEX data in up to 50 segments by delimiter or offset
- Concatenate up to 50 data segments into a string
- Bring your factory data to the cloud
- Supports up to 3 MQTT broker connections
- Effortless Browser Based Configuration, no programming software is required
- Simple data translation allows you to manipulate data as it passes between protocols
- 5-Year Hardware Warranty

### Connect Serial ASCII Devices to an MQTT Broker

The 460AQT connects serial ASCII devices with up to three MQTT connections. Allowing you to easily log data and leverage in populating dashboards. Best of all, the product comes with 5-year warranty.

### How Do I Use the 460AQT-NNA1 in My Application?

Data elements inside ASCII strings are parsed and presented as topics to an MQTT broker. Conversely topics in an MQTT broker can be subscribed to and the values can be concatenated into an ASCII string.

If your ASCII device uses delimiters, the gateway can be configured to automatically remove the delimiters on incoming messages and add delimiters back in on outgoing messages.

### Why Use Real Time Automation as a Gateway Supplier?

While there are certainly other companies offering protocol gateways, there is no one who provides the level of support and service that you receive from RTA.

When you call, a live person answers the phone. When you talk with sales, you will get honest answers and recommendations. When you get support, it is from an engineer who had a hand in the product's development, and support doesn't require a ticket or 24-hour wait.



**A Solution, A Philosophy, the RTA Way.** We understand the long hours spent on a factory floor and the pressure to keep a line running and product flowing. That's how Real Time Automation came to be. You want easy-to-use solutions where the hardest part is to open the box. You need customer support second to none. If you get all that and a fun customer experience all the better. Thirty years later, our mission remains the same: **To move your data where you need it, when you need it, and how you need it.**

**ASCII FEATURES**

|  |   |
|--|---|
| Operation Mode                                 | Bidirectional ASCII Transmit and Receive  |
| Maximum Number of Devices Supported            | 1   |
| Concatenation                                  | Concatenate up to 50 segments data in a delimited ASCII sting   |
| Maximum Number of ASCII Characters Transferred | 1024 in each direction  |
| Delimiter Processing                           | Incoming delimiters can be automatically removed; Outgoing delimiters automatically added if configured |
| Parsing  | Parse string of ASCII data in up to 50 segments by delimiter or offset                                  |

**MQTT CLIENT FEATURES**

|                                |   |
|--------------------------------|---|
| Operation Mode                 | Generic MQTT, Amazon Web Services (AWS)   |
| Max Broker Connections         | Up to 3 Generic MQTT Connections or 1 AWS |
| Max Data Points Per Connection | 250 Read Topics, 250 Write Topics         |
| Security                       | SSL certificate based cloud access        |
| Supported Data Formats         | JSON                                      |
| Data Payload                   | Topic Name and Value                      |

**INCLUDED WITH GATEWAY**

|   |  |
|---|--|
| 3' power cable with flying leads                                    | 5-year hardware warranty   |
| IPSetup software - automatically locates RTA gateway on the network | Unlimited firmware feature upgrades for life                     |
| CAT5 crossover cable for direct connection to PC during programming | Complete, unlimited access to our industry leading support staff |
| Manual  |  |

**ELECTRICAL / ENVIRONMENTAL**

|                       |                                       |
|-----------------------|---------------------------------------|
| 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 |

**ENCLOSURE / HARDWARE**

|                |  |
|----------------|--|
| 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 |

**GATEWAY FEATURES & FUNCTIONS**

|                         |  |
|-------------------------|--|
| Alarming                | Set <, <=, >, >=, ==, !=, and change-of-state rules on any data moving through the gateway. If alarm rule is triggered an email notification can be sent.      |
| Gateway Security        | You can configure up to 9 different users access to diagnostic and configuration screens.  |
| Translation Table       | Allows for data manipulation during protocol translation. Scaling and other data format changes can occur in the gateway.                                      |
| Status and Counters     | Protocol specific status, counters, and error messages are accessible within the gateway's diagnostics page. They can also be delivered to a connected device. |
| Diagnostic Logging Page | Allows users to see and log start up sequences, protocol specific messages & error messages.   |

**NOT EXACTLY WHAT YOU WERE LOOKING FOR?**

Real Time Automation offers a full line of gateway products. Give us a call at 1-800-249-1612. Or, check out a listing at [www.rtautomation.com/products](http://www.rtautomation.com/products). We also offer customizations for unique applications.

| CATALOG #   | DESCRIPTION  |
|-------------|--|
| 460AQT-NNA1 | Interface serial ASCII devices with an MQTT broker |

**ALWAYS IN STOCK****READY TO SHIP****ENGINEER SUPPORT****5-YEAR WARRANTY****EMPLOYEE OWNED**