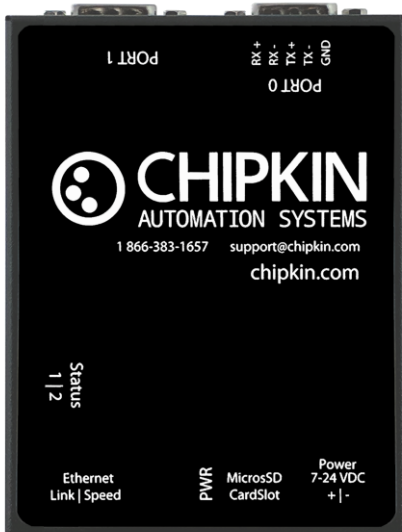


May 10, 2019



## CAS-2700-79

# CAS Gateway HTTP JSON to BACnet® and Modbus® RTU/TCP

## PRODUCT DESCRIPTION

The Chipkin™ HTTP JSON to BACnet® and Modbus® RTU/TCP gateway is a protocol converter that polls for JSON data and makes it available in other protocols. The gateway operates sending HTTP requests get data in the form of JSON packets, extracts the configured values, and stores them in an internal database. These values can then be read from Modbus® RTU/TCP, BACnet® and HTTP.

The gateway requires minimal configuration and can be considered a 'plug and play' component of any network system. It's ready to operate 'out of the box' and can be installed without an engineer's approval.



**Note:** All gateways sold by Chipkin report operating stats and issues to web pages and maintain logs that can be uploaded by HTTP or ftp.

## SPECIFICATIONS

The following specifications for the HTTP JSON to BACnet® and Modbus® RTU/TCP gateway are common to all Chipkin gateways.

- UL and ULc approved
- 10/100BASE-T with RJ-45 connector
- 1x RS232 port
- 1x RS485 port (different models have additional ports)
- Power: 7 – 24 VDC through an external power supply
- Gateway Operating temperature: 0 – 70 °C (32 – 158 °F)
- LEDs: link, speed/data, power
- Dimensions (LxWxH): 107 x 83 x 25 mm (4.2 x 3.25 x 1 in.)

## MAXIMUM NODES SUPPORTED

This table summarizes the number of panels supported for each protocol node.

| GATEWAY NODE | NODES | COMMENTS  |
|--------------|-------|---|
| Client       | *     | * The driver can connect to multiple web servers containing data in JSON formats. |
| Server       | *     | * The driver can serve the data to multiple BACnet and Modbus clients.            |

## CONNECTION INFORMATION

These tables summarize possible connections from the Modbus RTU server ports

### PORT 0: RS485 – Modbus RTU

|                      |  |
|----------------------|--|
| Connection type      | RS485 (jumper change to RS232)           |
| Baud rates           | Driver supports: 9600, 19200, 38400 baud |
| Data-bits            | Driver supports: 8, 7                    |
| Stop-bits            | Driver supports: 2, 1                    |
| Parity               | Driver supports: none, odd, even         |
| Hardware interface   | N/A                                      |
| Multidrop capability | Yes                                      |

### PORT 1: RS232 – Modbus RTU

|                 |  |
|-----------------|--|
| Connection type | RS232  |
| Baud rates      | Driver supports: 9600, 19200, 38400, 115200 baud |
| Data-bits       | Driver supports: 8, 7                            |
| Stop-bits       | Driver supports: 2, 1                            |

|                             |  |
|-----------------------------|--|
| <b>Parity</b>               | Driver supports: <b>none</b> , odd, even |
| <b>Hardware interface</b>   | N/A                                      |
| <b>Multidrop capability</b> | No                                       |

\*\* Blue represents the gateway's default configuration

## CONFIGURATION INFORMATION

Users supply the complete URL including any query parameters required by the API they are trying to query for JSON data.

The CAS 2700-79 gateway uses a custom pathing system to access data within the JSON payload.

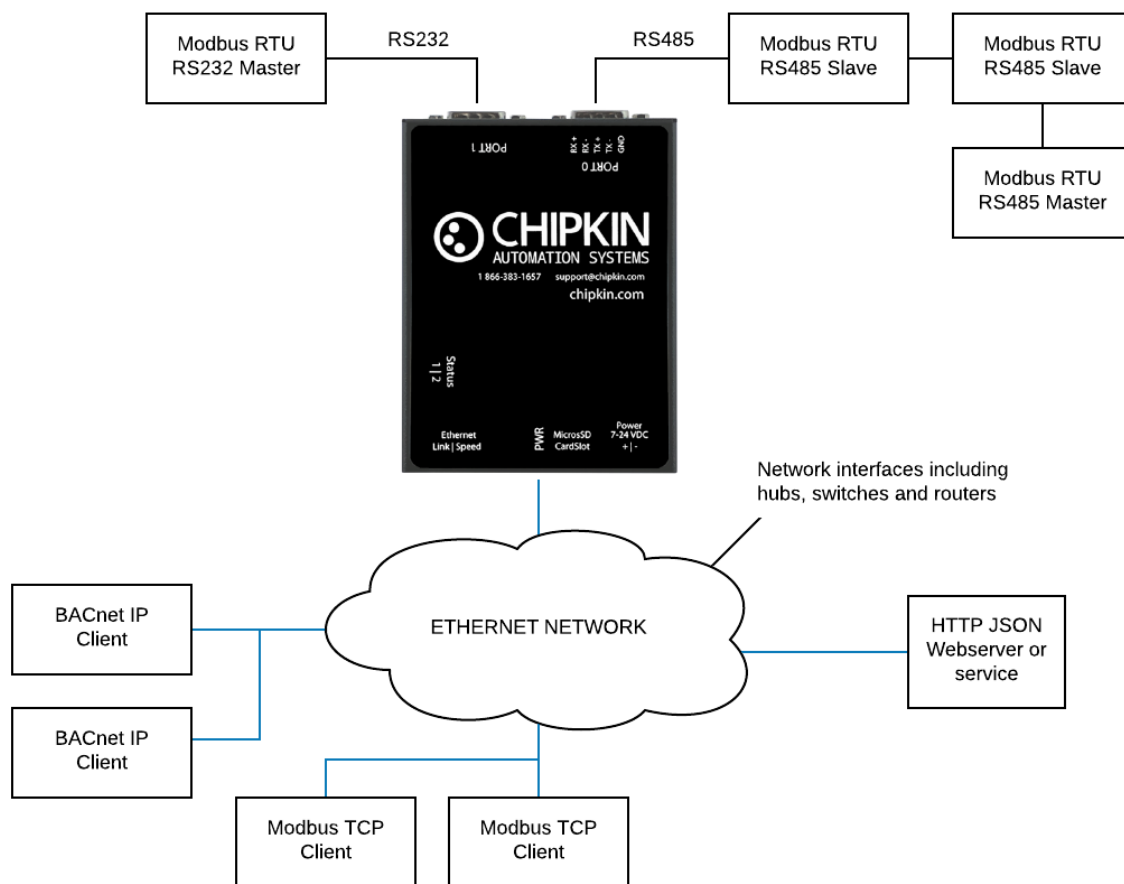
For more information about this please refer to the manual:

- CAS\_MAN\_CAS-2700-79\_HTTP-JSON-Gateway\_Manual.pdf

## CONNECTION CONFIGURATIONS

This block diagram lists common network connections that can monitor JSON data from webservers sensors using Modbus RTU/TCP, BACnet and HTTP protocols.

**JSON data from webservers via HTTP**  
Using BACnet IP and Modbus (TCP or RTU)



## CUSTOMER SUPPORT

CAS-2700-79 HTTP JSON to BACnet® and Modbus® RTU/TCP gateway was developed by Chipkin, and we are proud to provide support for our products. For technical support, sales and customer service, please call us at 1 (866) 383-1657.

## REVISION HISTORY

This table summarizes the update history for this gateway data sheet. Please contact Chipkin by phone or email for an updated version of this document.

| DATE        | RESP. | DRIVER VERIFIED | DOCUMENT REVISION | COMMENTS                                 |
|-------------|-------|-----------------|-------------------|--|
| 10 May 2019 | ACF   | 0.01            | 00                | Created.                                 |
| 22 Jan 2020 | ACF   | 0.01            | 01                | Removed typos in network diagram section |

Thanks for choosing Chipkin's protocol gateways, data clients and integration services to meet your building and industrial automation requirements!

Chipkin™ is a building and industrial automation protocol expert. We develop, configure, install and support gateways (protocol converters), data loggers and remote monitor and controlling applications. Founded in October 2000, Chipkin provides expert solutions for converting BACnet®, Modbus®, and Lonworks®—to name just a few—and enabling interfaces for HVAC, fire, siren, intercom, lighting, transportation and fuel systems. The high-quality products we offer (including those from other vendors) interface with Simplex™, Notifier™, McQuay™, GE™ and many others—so you can rest assured that we will select the most appropriate solution for your application.

With Chipkin you are buying a solution. Our configuration expertise in this field combined with free BACnet and other tools ensure your success; and our customer support via phone, email and remote desktop tools means that we're there when you need us. Chipkin is a small responsive company, and we live or die by the quality of our service—and with offices in two time zones—we can provide support when you need it. Give us a call now!

## Sales and Customer Service

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