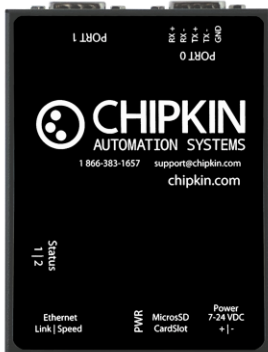


March 16, 2018



CAS-2500-03

CAS Modbus® RTU/TCP Data Client

PRODUCT DESCRIPTION

Chipkin™ Modbus® RTU/TCP Data Client is a device that connects to Modbus® RTU slaves and Modbus® TCP servers as a Modbus RTU Master / Modbus TCP Client, and reads and stores the data. The data client operates by reading data from the configured registers and stores the values in an internal database. These values can then be logged to an archive file or can be accessed via the data clients REST API as XML, JSON, or CSV data using HTTP Get requests. Log files can be accessed by a Web Browser or FTP client.

The device 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 data clients 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 Modbus® RTU/TCP data client and are common to all Chipkin data clients.

- 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
- 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 data client can connect to multiple slave devices. The data client can read and log up to 500 data points.
Server	0	Not supported or documented

CONNECTION INFORMATION

These tables summarize possible connections for the Modbus® RTU/TCP Data Client 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

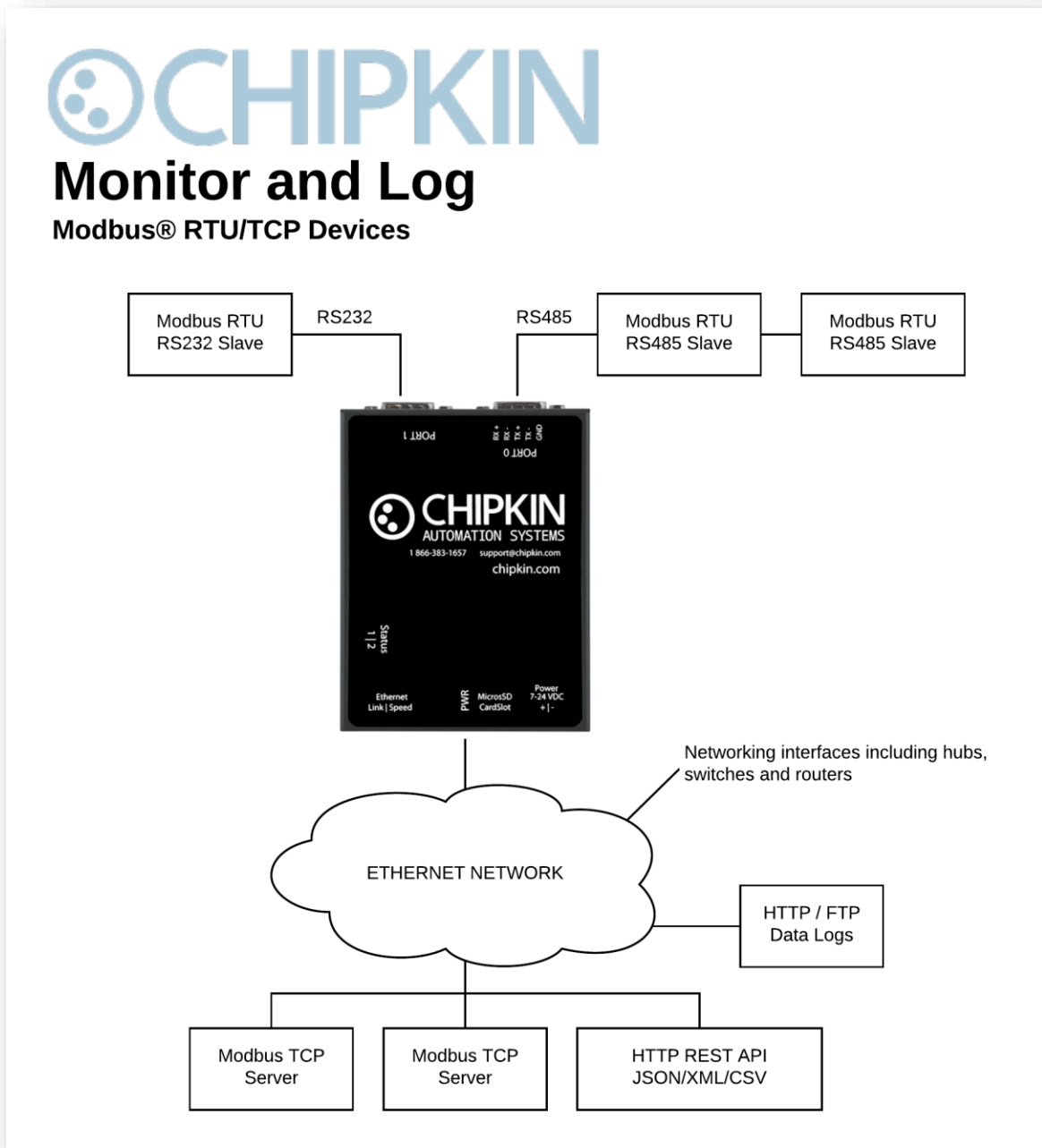
Connection type	RS232
Baud rates	Driver supports: 9600, 19200, 38400, 115200 baud
Data-bits	Driver supports: 8, 7
Stop-bits	Driver supports: 2, 1
Parity	Driver supports: none, odd, even
Hardware interface	N/A

Multidrop capability	No
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** Blue represents the gateway's default configuration

CONNECTION CONFIGURATIONS

This block diagram lists common network connections that can monitor log data from Modbus RTU/TCP devices.



CONFIGURATION

Configuration of the Modbus® RTU/TCP Data Client is handled via the webpages of the device. For more information on the configuration of the device, please refer to the manual:

CAS_MAN_CAS2500-03-Modbus-Data-Client-Manual.

CUSTOMER SUPPORT

CAS-2500-03 Modbus® RTU/TCP data client 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
13 Mar 2018	ACF	0.13	00	Updated.

APPENDIX A: SUPPORTED FUNCTIONS

This table describes the Modbus® functions that are used by the CAS 2500-03 Modbus® RTU/TCP data client

MODBUS FUNCTION	DESCRIPTION
0x01	Read Coil Status
0x02	Read Input Status
0x03	Read Holding Registers
0x04	Read Input Registers
0x05	Force Single Coil
0x06	Preset Single Register
0x0F	Force Multiple Coils
0x10	Force Multiple Registers

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!

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