June 06, 2017

CAS-2700-65

CAS Gateway Digital Lumens to Modbus® RTU/TCP, BACnet® and HTTP

PRODUCT DESCRIPTION

Chipkin™ Digital Lumens to Modbus® RTU/TCP, BACnet® and HTTP gateway is a protocol converter for the Digital Lumens Light Rules lighting system. The gateway operates by reading zone and profile data from the Digital Lumens server into an internal database. The values read from the device then can 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. For a list of tested devices, refer to Appendix A: Tested Devices.

Important: The Modbus RTU driver can be used on either the RS232 or RS485 serial port.

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 Digtal Lumens to Modbus® RTU/TCP, BACnet® and HTTP 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	1	The CAS 2700-65 can only connect to one Digital Lumnes server device.
Server	0	Not supported or documented

CONNECTION INFORMATION

These tables summarize possible connections from the Modbus RTU server ports

PORT 0: MODBUS RTU SERVER PORT – RS485

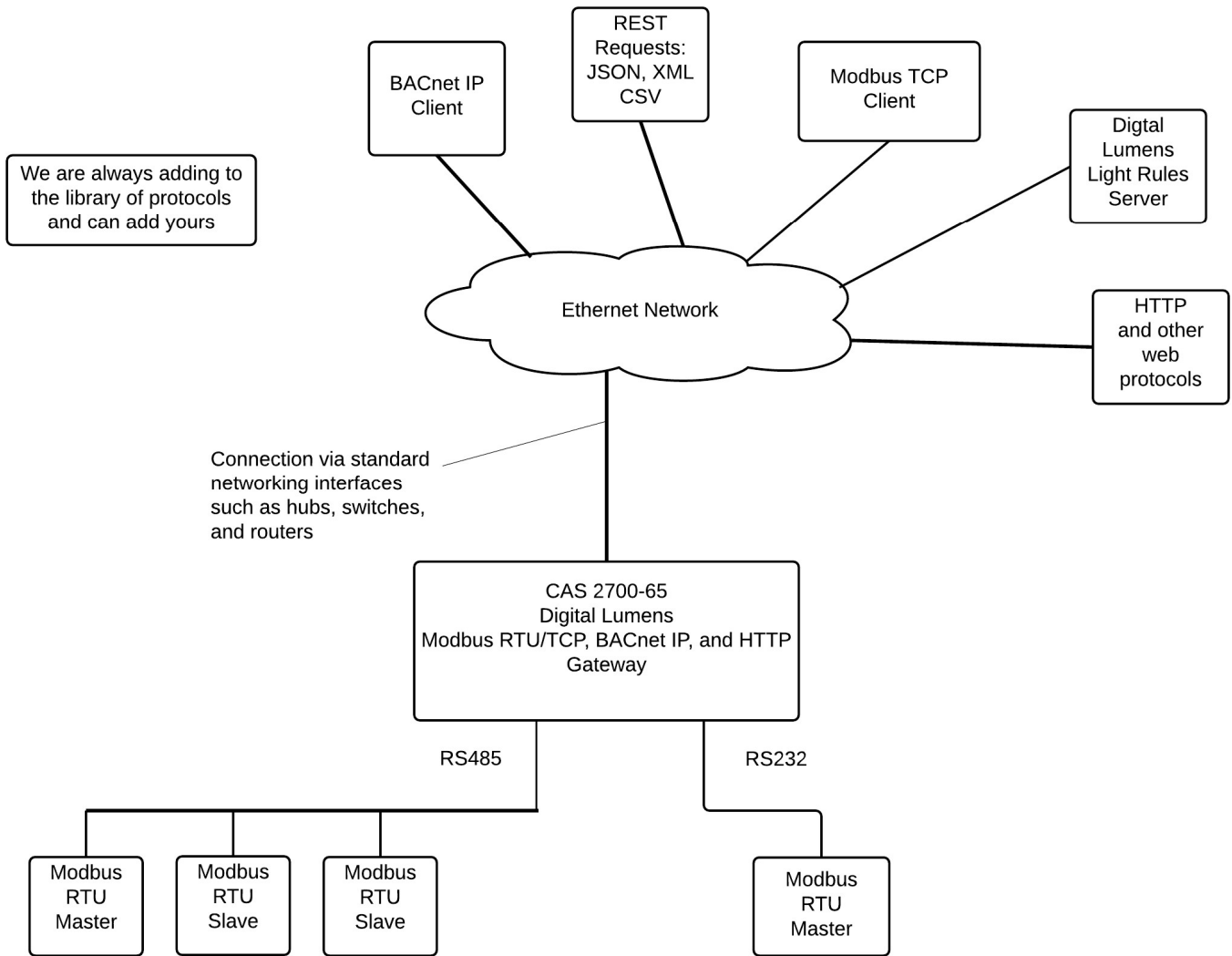| Connection type	RS485
Baud rates	Driver supports: **9600**, 19200, 38400, 76800, 115200 baud
Data-bits	Driver supports: **8,** 7
Stop-bits	Driver supports: **1,** 2
Parity	Driver supports: **none,** odd, even
Hardware interface	N/A
Multidrop capability	Yes

PORT 1: MODBUS RTU SERVER PORT – RS232

Connection type	RS232

Baud rates	Driver supports: **9600**, 19200, 38400, 76800, 115200 baud
Data-bits	Driver supports: **8,** 7
Stop-bits	Driver supports: **1,** 2
Parity	Driver supports: **none,** odd, even
Hardware interface	N/A
Multidrop capability	Yes

** Blue represents the gateway's default configuration

CONNECTION CONFIGURATIONS

This block diagram lists common network connections that can monitor and control data from Digital Lumens using Modbus RTU/TCP, BACnet and HTTP protocols.

CUSTOMER SUPPORT

CAS-2700-65 Digital Lumens to Modbus® RTU/TCP, BACnet® and HTTP 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
6 June 2017	ACF	0.00	0	Document created.

APPENDIX A: TESTED DEVICES

These tables summarize the Digital Lumens devices that have been tested. Other devices may be supported.

DEVICE	TESTED (FACTORY/SITE)
Light Rules v1.1.3	Factory, Site

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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