

May 11, 2018



CAS-2700-74

BEST Eniscope to BACnet IP and HTTP Gateway

PRODUCT DESCRIPTION

The BEST Eniscope to BACnet IP and HTTP gateway is a protocol converter for the BEST Eniscope Power Meter system. The gateway operates by receiving data from the Eniscope system and storing the parse values internally. These values can then be read using BACnet® and via the web page. The gateway also allows users to read data from other BACnet Power Meters and serve the data using HTTP POSTs to a BEST Cloud Server for further analysis.

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 BEST 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
- 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 gateway can received data from multiple BEST Eniscope devices up to 1000 data points*
Server	*	The gateway can poll multiple BACnet power meters to serve to a cloud server, up to 1000 data points*

* The 1000 data point limit is a soft limit. It is possible to configure more data points; however, performance will degrade at higher point counts.

CONNECTION INFORMATION

These tables summarize possible connections from the Modbus RTU server ports

PORT 0: RS485 - Not Used

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 Not Used

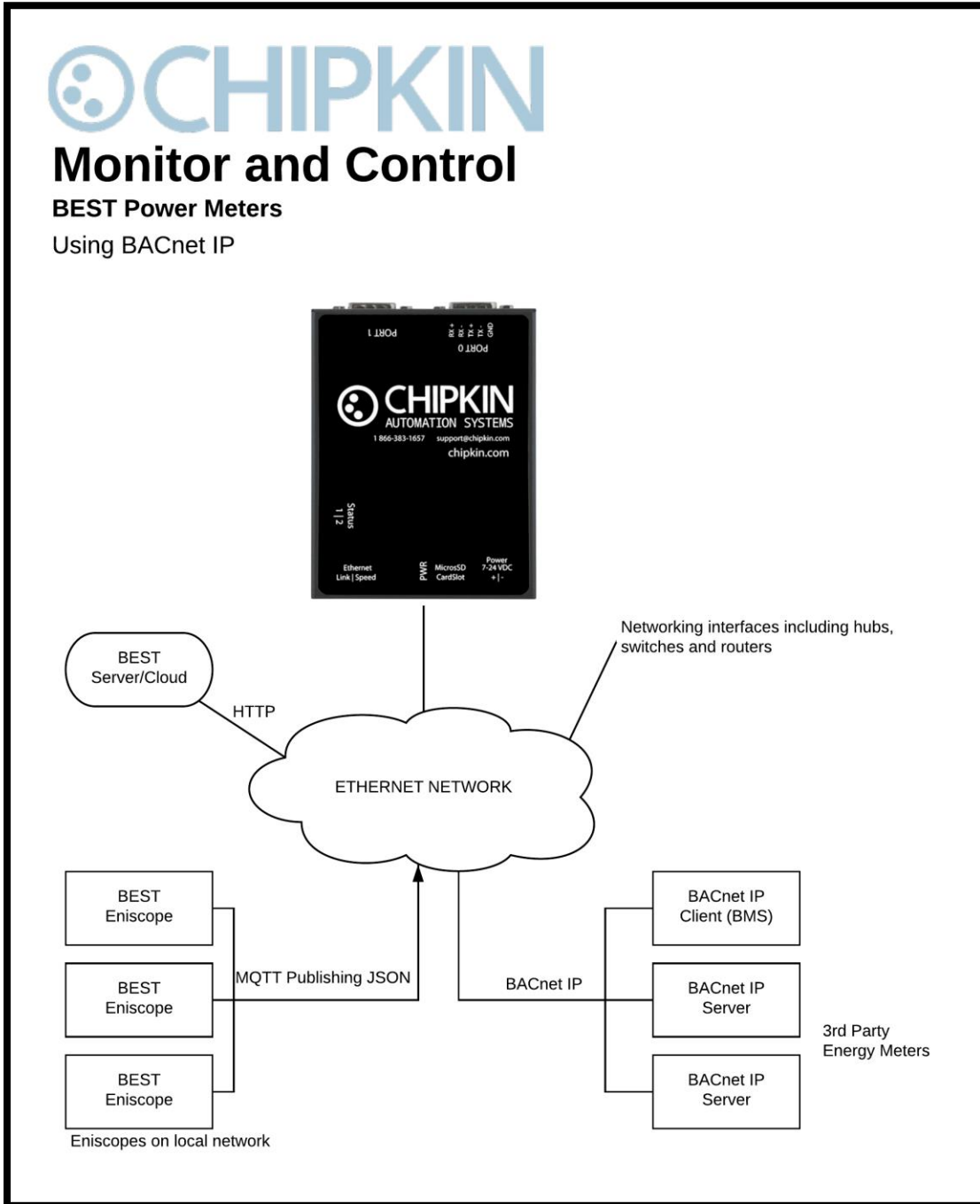
Connection type	RS232
Baud rates	Driver supports: 9600, 19200, 38400, 115200 baud
Data-bits	Driver supports: 8, 7
Stop-bits	Driver supports: 2, 1
Parity	Driver supports: none, odd, even

Hardware interface	N/A
Multidrop capability	No

** Blue represents the gateway's default configuration

CONNECTION CONFIGURATIONS

This block diagram lists common network connections that can monitor BEST Eniscope Power Meters using BACnet IP and can read BACnet IP Power Meters and push the data to a BEST cloud server.



CUSTOMER SUPPORT

CAS-2700-74 BEST Eniscope to 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.

REVISION	DATE	AUTHOR	NOTE
1	2018-May-11	ACF	- Created document

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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