



Data Sheet

Cimetrics B6085 High Capacity Series

BACnet/IP to BACnet/Webservices Gateway/Firewall

Connect BACnet/IP to Enterprise Applications

Two Ethernet ports keep the BAS network and business network fully isolated (firewall)

Browser setup screens (web server function)

Professional electrical construction in a rugged metal housing

Data and Power indication

Separate Ethernet configuration interface

Uses automation code by industry's leading BACnet OEM protocol stack (Cimetrics BACstac™)



PRODUCT INTRODUCTION

This product allows integration of BACnet/IP devices into Enterprise Applications using the REST architecture. The device uses Cimetrics BACrest API (Application Program Interface). The API lets you read and write data to device-centric networks using URL-like commands.

The word BACrest means "Building Automation Control Relational State Transfer". The "REST" part of this name is IT terminology used to describe the architecture used to create the Internet "URL system". We have created a version of "REST" that applies to the needs of device-centric networks.

The Web Services connection conforms to XML/SOAP and WSDL standards which are supported by almost all enterprise software vendors. This allows an easy method of controlling and monitoring BACnet devices without needing to know anything about the BACnet protocol.

The BACnet/IP connection conforms to the latest BACnet standard and is a 3rd generation protocol stack created by the Cimetrics development team.

Mapping between the BACnet/IP network and the Webservices calls is done using the NCL creator tool under Windows. And Webservices calls are accessed via a password protected browser URLs. Since two isolated Ethernet ports are used, this device also acts as a firewall, meaning that no unintended communications or control is possible between the two networks.

FEATURES

The unit has three Ethernet ports—two for BACnet gateway and a dedicated port for configuration. IP settings are easily configured via web browser. The router is housed in a metal case and uses a 12 VDC external power supply. You can save the configuration in a file and reload as needed. The status page provides rudimentary traffic information.

BACnet DETAILS

Supports BACnet/IP and proposed BACnet/Web Services Web Server enabled browser setup for defining web services URLs and mapping these to BACnet/IP points BACnet Protocol Revision 14

HARDWARE SPECIFICATIONS

Power Adapter Voltage	100—240 VAC, 50-60 Hz
Operating Temperature	0 to 40 C
Storage temperature	-20 to 50 C
Power consumption	12 VDC, 20W typical
Dimensions	160 x 160 x 25 mm
Weight	1 kg
Ethernet Ports	10/100/1000 Mbps
Approvals	FCC Class A, CE

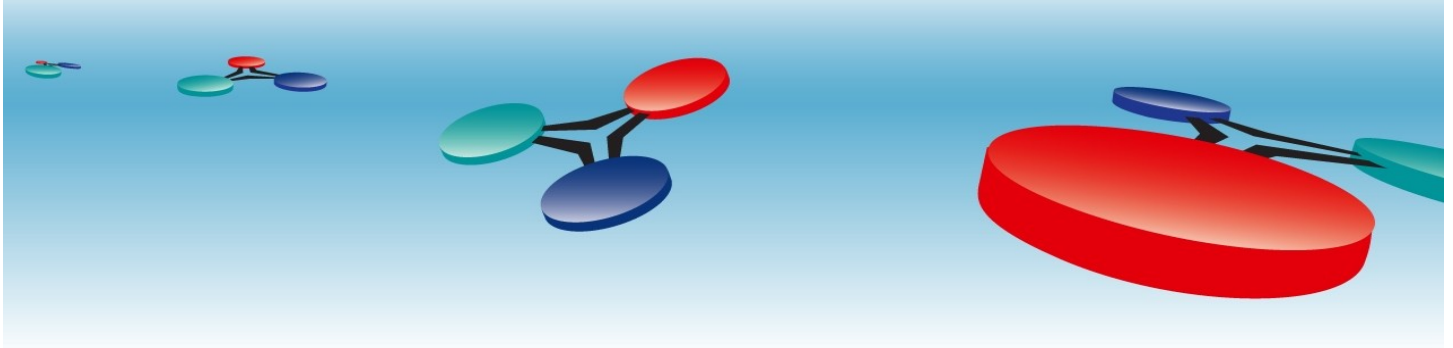
ORDERING INFORMATION

B6085 - BACnet/IP to BACnet/WS Gateway
DIN rail mount standard
(specify when ordering if not desired)

PRODUCT SUPPORT

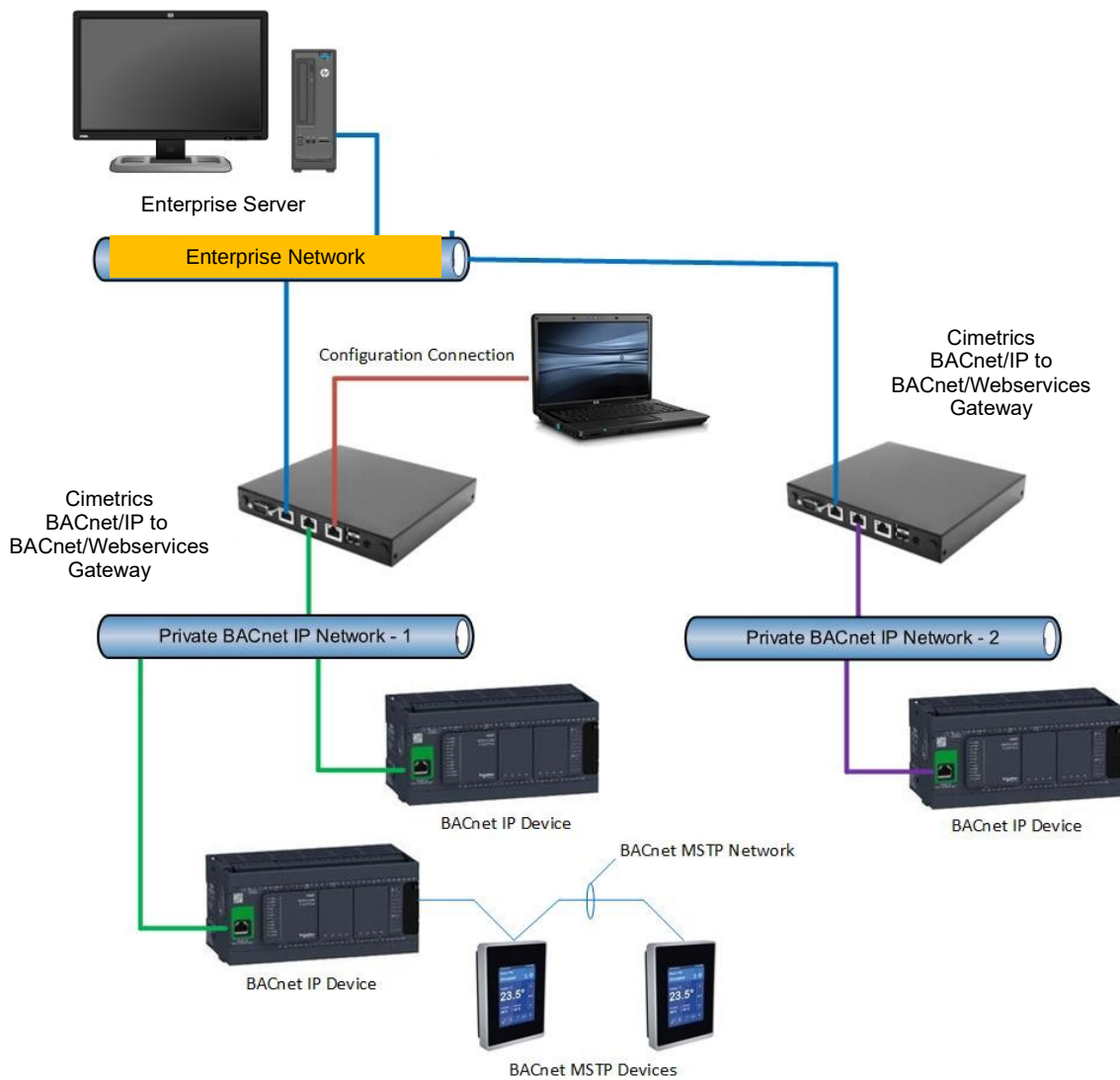
One year warranty on router hardware
Free product technical support

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Deploy Your Network — BACnet/IP to BACnet/Webservices Gateway:

Cimetrics BACnet/IP to BACnet/Webservices gateway implements a REST API to allow BACnet communication (and only BACnet communications) to go between separate IP networks. A typical deployment scenario is shown below. The Enterprise network communicates to multiple IP networks containing BACnet-compliant devices. The BACnet devices are connected to private IP networks utilizing private IP addresses and accessed by Webservices calls.



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