

BCM-ETH

Features and highlights

Scalable

Combine BACtalk® control modules (BCMs) to fulfill unique processing and network integration requirements.

Interoperable

BACnet-compliant controller supports 10Base-T or 100Base-TX connection to BACnet Ethernet and one BACnet MS/TP network.

Enterprise ready

Supports BACnet/IP and can operate as BACnet broadcast managment device (BBMD) for integration on enterprise and wide area networks.

Powerful

32 MB RAM, 32-bit processor, and 8 MB of flash RAM provide a fast, reliable platform to run DDC programming and global automation routines.



The Alerton® BCM-ETH is a high-performance BACnet-compliant router and global controller that supports both a BACnet Ethernet and a BACnet MS/TP network connection.

The BCM-ETH has an onboard Ethernet network interface card (NIC) that supports 10Base-T (10 Mbps) or 100Base-TX (100 Mbps) Ethernet connections to the BACnet internetwork. For integration on enterprise and wide area networks, the BCM-ETH supports BACnet/IP and can function as a BBMD.

The BCM-ETH hosts automation features such as schedules, trendlogs, alarms, optimum start, demand limiting, and tenant activity for up to 65 field controllers connected to its MS/TP LAN. MS/TP is a LAN standard designed specifically for BACnet applications using the EIA–485 signaling standard on twisted-pair cabling in a simple bus configuration.

DIN-rail mounting and a ribbon-cable connection to other BCMs make expansion easy. You can add a network or integration option in minutes, which gives you unprecedented flexibility to adapt quickly as your connectivity, integration, processing, and control requirements change.



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Technical data

- **Power** No independent power supply required. Conditioned power is provided by the BCM-PWS through a ribbon-cable connection.
- Data Backup 7.2V 700mA-h maintenance free battery in the BCM-PWS provides interim power for orderly shutdown and backup to flash memory in the event of power loss. Real-time clock retains date and time for up to 20 days without power.
- Memory & CPU 8 MB flash RAM. 32 MB SDRAM for program execution.
 32-bit, high-integration Motorola CPU.
- Real-time Clock Onboard real-time clock supports schedule operations, trendlogs, and timed DDC functions.
- BACnet Ethernet Integrated Ethernet adapter circuitry with RJ-45 jack for connection to 10Base-T or 100Base-TX Ethernet networks.
- BACnet/IP IP support for interoperability on enterprise and wide area networks (WANs). Functions as a BACnet broadcast management device (BBMD) in accordance with Annex J BACnet/IP.
- BACnet MS/TP Removable, header-style screw terminals for 1 BACnet MS/TP (shielded, twisted-pair bus) LAN. Supports a maximum of 65 field controllers. Configurable from 9.6 to 76.8 Kbps.
- Max. Dimensions 6.5" (166mm) H x 1.5" (39mm) W x 5.0" (127mm) D
- Environmental 32-131 deg. F (0-55 deg. C). 0-95% RH, non condensing.
- Ratings

Listed Underwriters Laboratories for Open Energy Management Equipment (PAZX) under the UL Standard for Safety 916.

EMC Directive 89/336/EEC (European CE Mark).

FCC Part 15, Subpart J, Class A.

Software

Programming interface: BACtalk operator workstation software over BACnet Ethernet.

DDC: VisualLogic® control algorithms execute locally every second. Supports a maximum of 1000 BACnet AVs and 1000 BACnet BVs.

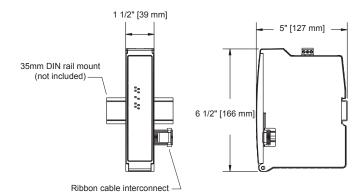
Schedules: Supports a maximum of 80 schedules and 80 calendars.

Alarms: Supports a maximum of 320 alarm setups—system destination and actions individually configurable.

Trendlogs: Supports a maximum of 320 trendlogs to store data point histories for analysis.

Demand limiting: Supports two demand limiter objects, each with 100 loads defined.

Zones and tenant activity logs: Supports 80 zones and 80 tenant activity logs to monitor afterhours energy usage.



Ordering information

Item number	Description
BCM-ETH	BACtalk control module with 1 Ethernet, 1 MS/TP

Specifications subject to change without notice