

# Alerton Integration Engine

## A-6

### Features and highlights

- **Flexible**  
Supports open and legacy protocols.
- **Powerful**  
Provides stand-alone control, energy management and multi-protocol integration.
- **Dynamic**  
On-board web user interface serves rich presentations and live data to a browser.
- **Interoperable**  
Certified as BACnet Building Controller (B-BC) level device.



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The Alerton® Integration Engine A-6 is a compact, embedded controller/server platform that combines integrated control, supervision, data logging, alarming, scheduling and network management functions with Internet connectivity and web-serving capabilities in a small, compact platform. The A-6 enables you to control and manage external devices over the Internet and view real-time information in web-based graphical displays.

The A-6 is part of Alerton's line of products designed to integrate a variety of devices and protocols—including BACnet™, LonWorks™, Modbus, oBIX, Internet standards and many others—into unified, distributed systems.

The Alerton A-6 serves data and rich graphical displays to a standard web browser using an Ethernet LAN or remotely over the Internet, or dial-up modem. In larger facilities, multi-building applications and large-scale control system integrations, Alerton's Envision for BACtalk™ software can be used to aggregate information (real-time data, history, alarms, etc.) from large numbers of Alerton Integration Engines into a single unified application. BACtalk can manage global control functions, support data passing over multiple networks, connect to enterprise level software applications, and host multiple, simultaneous client workstations connected over the local network, the Internet, or dial-up modem.

The A-6 is ideal for smaller facilities, remote sites, and for distributing control and monitoring throughout large facilities. Optional input/output modules can be plugged in for applications where local control is required. The A-6 also supports a wide range of field busses for connection to remote I/O and stand-alone controllers.

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### Technical data

- **Power** The A-NPB-PWR—Optional: 24 Volt AC/DC power supply module, DIN rail mounted. NPB-PWR-UN—Optional universal voltage input power supply module, DIN rail or panel mount. Input voltage is 90–263 Volts AC, 50/60 Hz, auto adjusting.

#### Optional Wall Power Modules\*

- WPM-US: 120 VAC, 50- 60 Hz. US
- WPM-EU: 230 VAC, 50-60 Hz. Europe/Asia
- WPM-UK: 230 VAC 50-60 Hz. UK
- WPM-JA: 100 VAC 50–60 Hz. Japan

\* Note: All modules are universal input 90–240 volts, 50/60 Hz.; model numbers above represent the various plug configurations only.

- **Optional Communications Cards**
  - NPB-LON: Optional 78 Kbps FTT10 A Lon Adapter
  - NPB-232: Optional RS-232 port adapter with 9 pin D- shell connector
  - NPB-2X-485: Optional dual port RS-485 adapter; electrically isolated
- **Processor & Memory** PowerPC 440 524 MHz processor, 128MB DDR RAM and 128 MB Serial Flash. Optional 256 MB DDR RAM, battery backup, real-time clock.
- **Operating System** QNX RTOS, IBM J9 JVM Java Virtual Machine, Niagara<sup>AX</sup> 3.1 or greater.
- **Dimensions** 4.82" (122.4mm)H (including connectors) x 6.3" (106.4mm)W x 2.44" (619mm)D.
- **Terminations** Removable header-type screw terminals accept 14–24 AWG wire.
- **Environmental** Operating temperature range: 32–122 deg. F (0–50 deg. C). Storage temperature range: 32–158 deg. F (0–70 deg. C). Relative humidity range: 5–95%, non-condensing.
- **Communications** Two Ethernet ports, one RS-232 port, one RS-485 port, one USB port, web user Interface and Niagara Connectivity included. oBIX Client/Server driver included.
- **BACnet Conformance** B-BC level device; tested and approved by BTL. See Protocol Implementation Conformance Statement (PICS).
- **Ratings**  
UL 916, C-UL listed to Canadian Standards Association (CSA) C22.2 No.; 205-M1983 "Signal Equipment", CE, FCC part 15 Class A.



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### Ordering information

Item number	Description
A-6	Alerton Integration Engine A-6
A-NPB-PWR	24 V AC/DC power supply module, DIN rail mountable
A-NPB-PWR-UN	90–263 V AC 50/60 Hz auto sensing power supply module, DIN rail mountable
NPB-LON	78 Kbps FTT 10 A LON® adapter. Uses one of the two communication slots in the AIE-2 or AIE-6 or A-7
NPB-232	Single Port RS 232 Option Card
NPB-2X-485	Dual Port RS 485 Option Card

Specifications subject to change without notice