



Applications

- Ideal for smaller facilities, remote sites, and for distributing control and monitoring throughout large facilities.
- Supports a wide range of field buses for connection to remote I/O and stand-alone controllers.
- Serves data and rich graphical displays to a standard web browser via an Ethernet LAN or remotely over the Internet, or dial-up modem. In larger facilities, multi-building applications and large-scale control system integrations, the EC-Net^{AX} Supervisor software can be used to aggregate information (real-time data, history, alarms, etc.) from large numbers of EC-BOS^{AX} controllers into a single unified application.
- Using EC-Net^{AX} Supervisor, you 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.

Overview

The EC-BOS-6^{AX} is a compact, embedded controller/server platform. It 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 EC-BOS-6^{AX} makes it possible to control and manage external devices over the Internet and present real time information to users in web-based graphical views.

The EC-BOS-6^{AX} is part of the EC-Net^{AX} suite of Javabased controller/ server products, software applications and tools, which are designed to integrate a variety of devices and protocols into unified, distributed systems. EC-Net^{AX} products are powered by the Niagara^{AX} Framework[®], the industry's first software technology designed to integrate diverse networks and devices into a seamless system. Furthermore, EC-Net^{AX} supports a wide range of protocols including LonWorks[®], BACnet[®] and Internet standards. In all, EC-Net^{AX} includes integrated network management tools to support the design, configuration, installation and maintenance of interoperable networks.

Features & Benefits

- Supports open and legacy protocols.
- Web User interface (optional) serves rich graphical presentations for easier and more user-friendly management of control system integrations.
- Integral energy management routines.
- Run stand-alone control, energy management and integration applications.
- Supports two optional communications boards.
- Small compact design is easy to install and supports multiple power options.
- Optional I/O Modules.
- Includes oBIX client/server and Niagara Network (Fox) client/server drivers.
- BTL listed when BACnet driver is used. Complies with B-BC (BACnet Building Controller).

Available Options

EC-BOS-6^{AX} models¹



EC-BOS-630

- 48MB Java heap memory
- 450K resource limit 200 points max/network

EC-BOS-640

- 48MB Java heap memory
- 1000K resource limit

EC-BOS-650

- 48MB Java heap memory
- No license restrictions

EC-BOS-660

- 96MB Java heap memory
- No license restrictions





EC-Net^{AX} IO-16

- 16 point I/O module
- 8 universal inputs
- 4 form A relay outputs
- 4 analog outputs (0-10VDC)
- Up to four (4) IQ-16 can be connected to the EC-BOS-6^{A)}



EC- Net^{AX} IO-34

- 34 point I/O module
- 16 universal inputs
- 10 form A relay outputs
- 8 analog outputs (0-10VDC)
- Maximum one (1) IO-34 can be connected to the EC-BOS-6^{AX}
- In addition to the IO-34, up to two (2) IO-16 can also be connected to the EC-BOS-6⁴
- Built-in 24V AC/DC Power Supply Module

Distech Controls Programmable Controllers



ECP-300

- 10 universal inputs
- 8 universal outputs
- 14 wireless inputs³



ECP-400 Series

- 12 universal inputs
- 12 universal outputs
- Option to have some triac outputs
- 14 wireless inputs³
- Option to have HOA switches
- Built-in 15V DC Power Supply



ECP-500 Series

- 12 universal outputs
- 14 wireless inputs³

- Built-in 15V DC

Other Products (Hardware)

EC-NPB-LON 78Kbps FTT-10A LON® adapter (uses one of the two communication slots in the EC-BOS-6AX)

EC-GPRS-CBL-EXT 2 meter (~6 ft.) antenna cable and bracket for modem

EC-NPB-GPRS Plug-in GPRS modem card RS 485 Card Plug-in RS-485 card (2 ports)

RS 232 Card Plug-in RS-232 card

EC-WPM-EU 90-240VAC, 50/60Hz wall adapter European/Asian plug type (not required with purchase of IO-34)

EC-WPM-UK 90-240VAC, 50/60Hz wall adapter U.K. plug type (not required with purchase of IO-34)

PMD2VA 85-264VAC/15VDC, 47/63Hz DIN rail mountable Power Supply Module

For more information on these or other Distech Controls products, please refer to our web site at www.distech-controls.eu or contact sales@distech-controls.eu or contact <a href="mailto:sales@diste

- 1. All EC-BOS-6^{AX} models include a web user interface, embedded workbench, and all of the open drivers.
- 2. For more information and details, please refer to the EC-NetAX I/O Modules datasheet.
- 3. Available when the Wireless Receiver module is connected to the controller.

Product Warranty & Total Quality Commitment

All Distech Controls product lines are built to meet rigorous quality standards and carry a two-year warranty. Distech Controls is an ISO 9001 registered company. Distech Controls' products provide both the contractor and the end user with the flexibility of using "best-of-breed" products in system design.

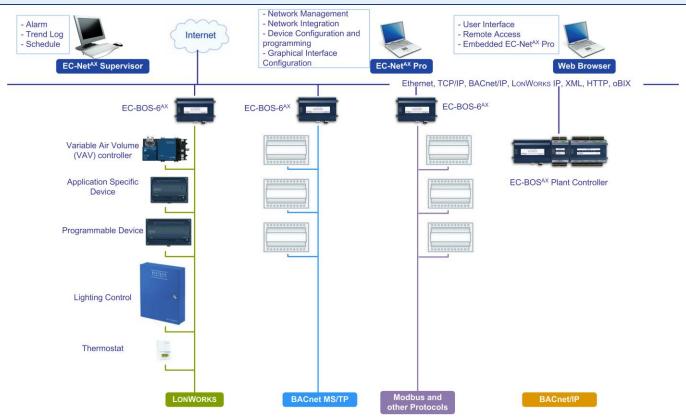
- 16 universal inputs
- Option to have HOA
- switches
- Power Supply

Product Specifications⁴ Platform⁵ Chassis Processor: IBM PowerPC 440 524MHz processor Construction: Plastic, DIN rail or screw mount chassis, plastic cover Memory: 256MB DDR RAM and 128MB Serial Flash Cooling: Internal air convection 16.0cm (6.3") W x 12.2cm (4.8") H (including connectors) 5 minutes typical. Shutdown begins within 10 Battery Backup: Dimensions: x 6.2cm (2.4") D Real-Time Clock: Weight: 0.708 kg (1 lb 9 oz) 3 month backup max via battery Communications **Environment** Methods: Operating Temp.: 0°C to 50°C (32°F to 122°F) - 2 Ethernet Ports - 10/100Mbps (RJ-45 connectors) 0°C to 70 °C (32°F to 158 °F) Storage Temp: 5% to 95%, non-condensing - 1 RS-232 Port (9-pin D-shell connector) Relative Humidity: - 1 RS-485 non-isolated port (3 screw connector on base board) **Agency Listings** - 1 20-Pin Euro-DIN Connector (for I/O and Power modules) UL: UL916 - 2 communication card option slots C-UL listed to Canadian Standards Association (CSA) C22.2 No. 205-M1983 "Signal Equipment" - 1 USB Port CE: For details, please refer to the EC-BOS-6^{AX} Mounting and **Operating Systems** Wiring Instructions Types: - QNX RTOS FCC: Part 15 Class A - IBM J9 JVM Java Virtual Machine ·(1) (F FC - Niagara^{AX} Framework

4. For more detailed specifications please refer to the EC-BOS-6^{AX} Mounting and Wiring Instructions.

5. Requires Niagara^{AX'} version 3.2 or higher.

Typical Architecture



Specifications subject to change without notice.

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