



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. 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} devices 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.

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.

Also offered is the EC-BOS-6^{AX} UUKL model, which is a UL 864 UUKL Listed Smoke Control Equipment for application in a Distech Controls UUKL smoke control system.

Both models are part of the EC-Net^{AX}™ suite of Java-based 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 systems and devices into a seamless system. EC-Net^{AX} supports a wide range of protocols including LONWORKS®, BACnet® and Internet standards. EC-Net^{AX} also 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 control 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
- Data Recovery Services prevents data loss during power interruptions
- 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)

Recommended Peripherals

EC-Net^{AX} I/O Modules¹



EC-Net^{AX} IO-16:

- 8 universal inputs
- 4 form A Relay outputs
- 4 Analog outputs (0-10VDC)
- Up to four (4) IO-16 can be connected to the EC-BOS-6^{AX}



EC-Net^{AX} IO-34:

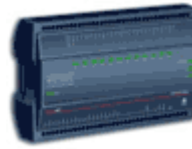
- 16 universal inputs
- 10 form A Relay outputs
- 8 Analog outputs (0-10VDC)
- Maximum one (1) IO-34 can be connected to the EC-BOS-6^{AX}
- In addition to the IO-34, up to two (2) IO-16 can also be connected to the EC-BOS-6^{AX}

Distech Controls I/O Modules²



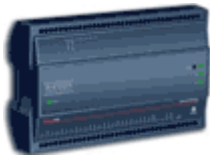
ECC-301:

- 8 universal inputs
- 8 triac outputs



ECC-401:

- 12 universal inputs
- 12 triac outputs



ECC-520:

- 16 universal inputs

Other Products (Hardware)



EC-NPB-LON	78Kbps FTT-10A LON adapter
EC-NPB-2X-485	Dual port RS-485 option card
EC-NPB-232	Single port RS-232 option card
EC-NPB-GPRS-W	GPRS Modem kit – includes modem card and SIM
EC-WPM-US	90-240VAC, 50/60Hz Wall adapter U.S. plug type
EC-WPM-EU	90-240VAC, 50/60Hz Wall adapter European/Asian plug type
EC-WPM-UK	90-240VAC, 50/60Hz Wall adapter U.K. plug type
EC-NPB-PWR	24V AC/DC, 50/60Hz Power Supply Module. DIN rail mountable
EC-NPB-PWR-UN	90-263VAC/15VDC, 50/60Hz Universal Power Supply Module. DIN rail mountable

Other Products (Software)

EC-DR-LON ^{AX}	LONWORKS driver
EC-DR-MSTP ^{AX}	Driver for MS/TP BACnet communications over RS-232 or RS-485 port
EC-DR-BACnet ^{AX}	BACnet IP Client over Ethernet
EC-NPM-256	Memory Upgrade option. Upgrades JAVA Heap from 48MB up to 96MB
EC-UI-SP-AX	Web User Interface add-on
EC-WP ^{AX} -WEB	Embedded EC-Net ^{AX} Pro (requires EC-UI-SP-AX)

For more information on these or other Distech Controls products please refer to our web site.

1. For more information and details please refer to the EC-Net^{AX} I/O Modules datasheet.
2. For more information please refer to the Remote I/O datasheet.

Product Specifications^{1 2}

Platform³

Processor	IBM PowerPC 440 524MHz processor
Memory	256MB DDR RAM, 48MB Java Heap and 128MB Serial Flash
Backup Capability	Data recovery services with SRAM
Real-Time Clock	

Communications

Methods:

- 2 Ethernet Ports – 10/100Mbps (RJ-45 connectors)
- 1 RS-232 Port (9-pin D-shell connector)
- 1 RS-485 port
- 1 One 20-Pin Euro-DIN Connector (for I/O and Power modules)
- 2 communication card option slots

Operating Systems

Types:

- QNX RTOS
- IBM J9 JVM Java Virtual Machine
- Oracle Hotspot Java 5 VM
- EC-Net^{AX} 3.6 or later

Chassis

Construction	Plastic, din rail or screw mount chassis, plastic cover
- Cooling	Internal air convection
- Dimensions	16.0cm (6.3") W x 12.2cm (4.8") H (including connectors) x 6.2cm (2.4") D
- Weight	0.708 Kg (1 lb 9 oz)

Environment

Operating Temp.	0°C to 60°C (32°F to 140°F)
Storage Temp.	0°C to 70°C (32°F to 158°F)
Relative Humidity	5% to 95%, non-condensing

Agency Listings

UL	UL916 C-UL listed to Canadian Standards Association (CSA) C22.2 No. 205-M1983 "Signal Equipment"
UL 864	UL 864, 9th Edition, UUKL Listed Smoke Control Equipment (EC-BOS-6 ^{AX} UUKL model only) ¹
California State Fire Marshal Listing	CSFM: 7300-2187:0100 (EC-BOS-6 ^{AX} UUKL model only) ¹
CE	For details, refer to EC-BOS-6 ^{AX} Hardware Installation Guide Wiring Instructions
FCC	Part 15 Class A
RoHS	RoHS compliant

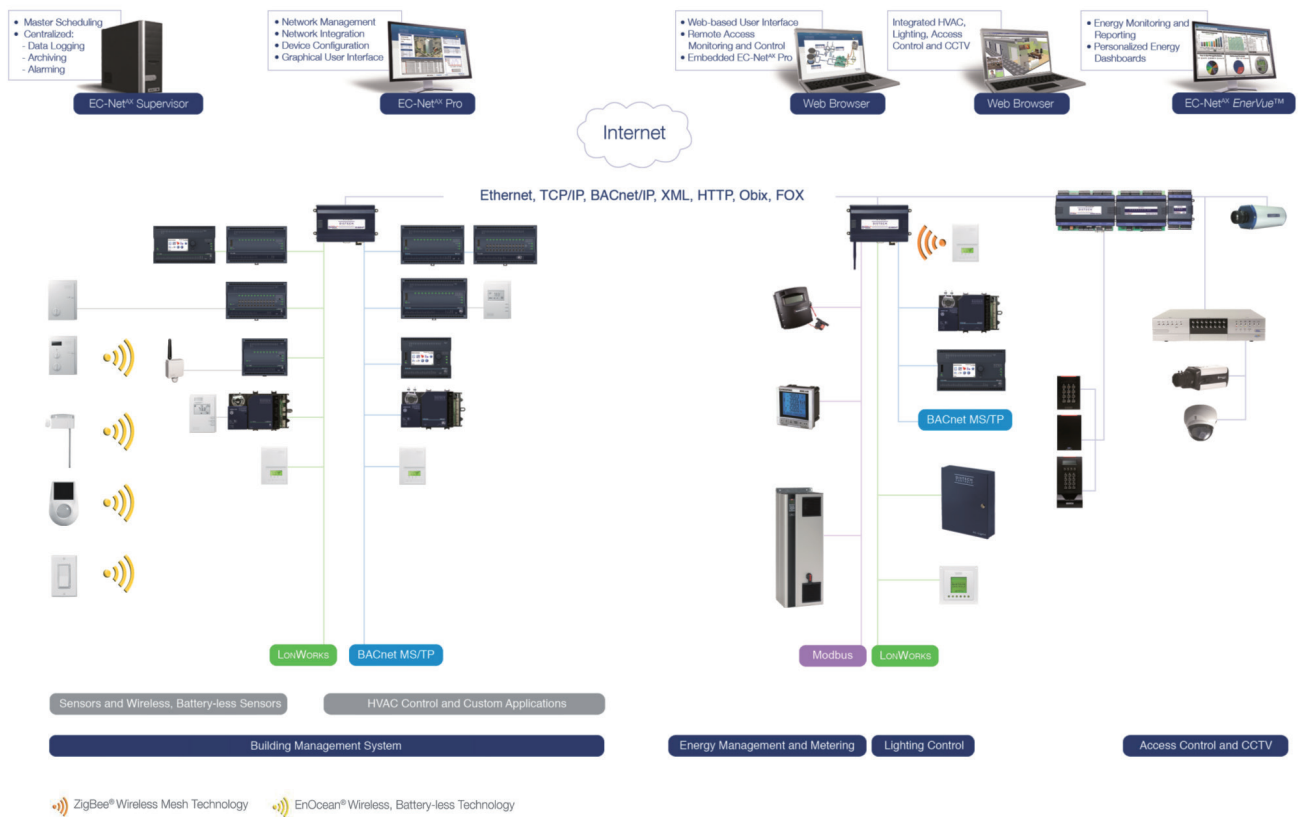


1. For detailed specifications regarding the EC-BOS-6^{AX} UUKL model, refer to the Distech Controls UUKL Smoke Control Design Guide (05DI-UGULDES-10).

2. For more detailed specifications, refer to the respective model's Hardware Installation Guide.

3. Requires Niagara^{AX} version 3.2 or higher.

Typical Architecture



Specifications subject to change without notice.

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