Honeywell

WEB-300E
Network Controller

PRODUCT DATA

OVERVIEW

Honeywell's WEB-300E 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 controller 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 WEB-300E is a member of Honeywell's 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. Building upon the WEB-200's success, the WEB-300E offers faster performance to utilize new NiagaraAX features. The WEB-300E device capacity has been increased by up to 20%.

Honeywell WEBs-AX products are powered by the revolutionary WEBs-AX Framework, the industry's first software technology designed to integrate diverse systems and devices into a seamless system. Niagara supports a wide range of protocols including LonWorks™, BACnet™, MODbus, oBIX and Internet standards. The Niagara Framework also includes integrated network management tools to support the design, configuration, installation and maintenance of interoperable networks.

APPLICATION

The WEB-300E 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 WEB-300E also supports a wide range of field busses for connection to remote I/O and stand-alone controllers. In small facility applications, the WEB-300E is all you need for a complete system.

The WEB-300E 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, WEBs-AX Supervisor™ software can be used to aggregate information (real-time data, history, alarms, etc.) from large numbers of WEBs controllers into a single unified application.

FEATURES

- **Embedded Power PC platform @ 400 MHz**
- **Supports open and legacy protocols**
- **QNX Real-time Operating System**
- **Web User interface (standard) serves rich graphical browser presentations**
- **Run stand-alone control, energy management, and integration applications within the WEB-300E series controllers**
- **Supports two optional communications boards**
- **Optional 16 and 34 point I/O Modules**
- **Data Recovery Services prevents data loss during power interruptions**
- **Optional battery is available for extended runtime**
- **Open or closed licensing options**

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Table 1. Ordering Information - JACE and Memory Upgrade Option.

Model	Description
WEB-300E	WEB-300E, includes two Ethernet ports, one RS-232 port, and one RS-485 port. Web User Interface and Niagara Connectivity included. oBIX Client/Server driver included.
WEB-300E-O	WEB-300E with Open License, includes two Ethernet ports, one RS-232 port, and one RS-485 port. Web User Interface and Niagara Connectivity included. oBIX Client/Server driver included.
NPM-256/U	NPM-256 - Memory Upgrade option. Upgrades WEB-300E JAVA Heap from 24MB up to 96MB

Table 2. Ordering Information - Optional Communications Cards.

Model	Description
NPB-LON/U	Optional 78 Kbps FTT10 A Lon Adapter
NPB-RS232/U	NPB-232 - Optional RS-232 port adapter with 9 pin D- shell connector
NPB-2X-RS485/U	Optional dual port RS-485 adapter; electrically isolated
NPB-GPRS-W-H/U	GPRS Modem option, bundled with Wyless SIM card
NPB-ZWAVE/U	ZWAVE Option Card for North America

Table 3. Ordering Information - Power Supply and Optional Power Modules.

Model	Description
NPB-PWR-H/U	Optional: 24 Volt AC/DC power supply module, Din Rail mounted
NPB-WPM-US/U	120 Vac, 50-60 Hz. US
NPB-PWR-UN-H/U	Optional universal voltage input power supply module, Din Rail mounted. Input voltage is 90-263 Volts AC, 50/60 Hz auto adjusting. Acceptable for ambient temperatures between 0-50°C
NPB-BATTERY/U	Optional Battery Kit. Provides up to 10 minutes of runtime during power outages and disturbances

SPECIFICATIONS

Platform
- Power PC 405EX 400MHz processor
- 256MB SDRAM & 128MB Flash Memory
- Data Recovery Services with SRAM
- Real-time clock

Operating System
- QNX RTOS
- Oracle Hotspot JAVA VM
- WEBsAX 3.7.106 or later
- Niagara 4.0 Ready

Communications
- 2 Ethernet Ports – 10/100 Mbps (RJ-45 Connectors)
- 1 RS 232 Port (9 pin D-shell connector)
- 1 RS 485 non isolated port (3 Screw Connector on base board)

Chassis
- Construction: Plastic, din rail or screw mount chassis, plastic cover
- Cooling: Internal air convection
- Dimensions: 6.313” (16.04 cm) W x 4.820”(12.24 cm) H (including connectors) x 2.438” (6.19 cm) D

Environment
- Operating temperature range: 0-60°C (32°F to 140°F)
- Operating temperature range: 0-50°C (32°F to 122°F) w/ optional battery kit
- Storage Temperature range: 0° to 70°C (32°F to 158°F)
- Relative humidity range: 5% to 95%, non-condensing

Agency Listings
- RoHS Compliant
- UL 916
- C-UL listed to Canadian Standards Association (CSA) C22.2 No. 205-M1983 “Signal Equipment”
- CE
- FCC part 15 Class B
- C-tick (Australia)

Optional I/O Modules

IO-34-H/U - 34 Point I/O Module
- Max of 1 per WEB-300E; includes integral 24 volt AC/DC input power supply for WEB-300E and IO; no other power required
- 16 Universal Inputs (Type 3 (10k) Thermistors, 0-1000 ohm, 0-10 volts, 0-20 mA with external resistor)
- 10 relay outputs (Form A contacts, 24 VAC @.5 amp rated
- 8 analog outputs (0-10 volt DC)

IO-16-H/U - 16 Point I/O Module
- Up to 4 per WEB-300E, 2 per WEB-300E if combined with a 34 Point I/O module
- 8 Universal Inputs (Type 3 (10k) Thermistors, 0-1000 ohm, 0-10 volts, 0-20 mA with external resistor)
- 4 relay outputs (Form A contacts, 24 VAC @.5 amp rated
- 4 analog outputs (0-10 volt DC)

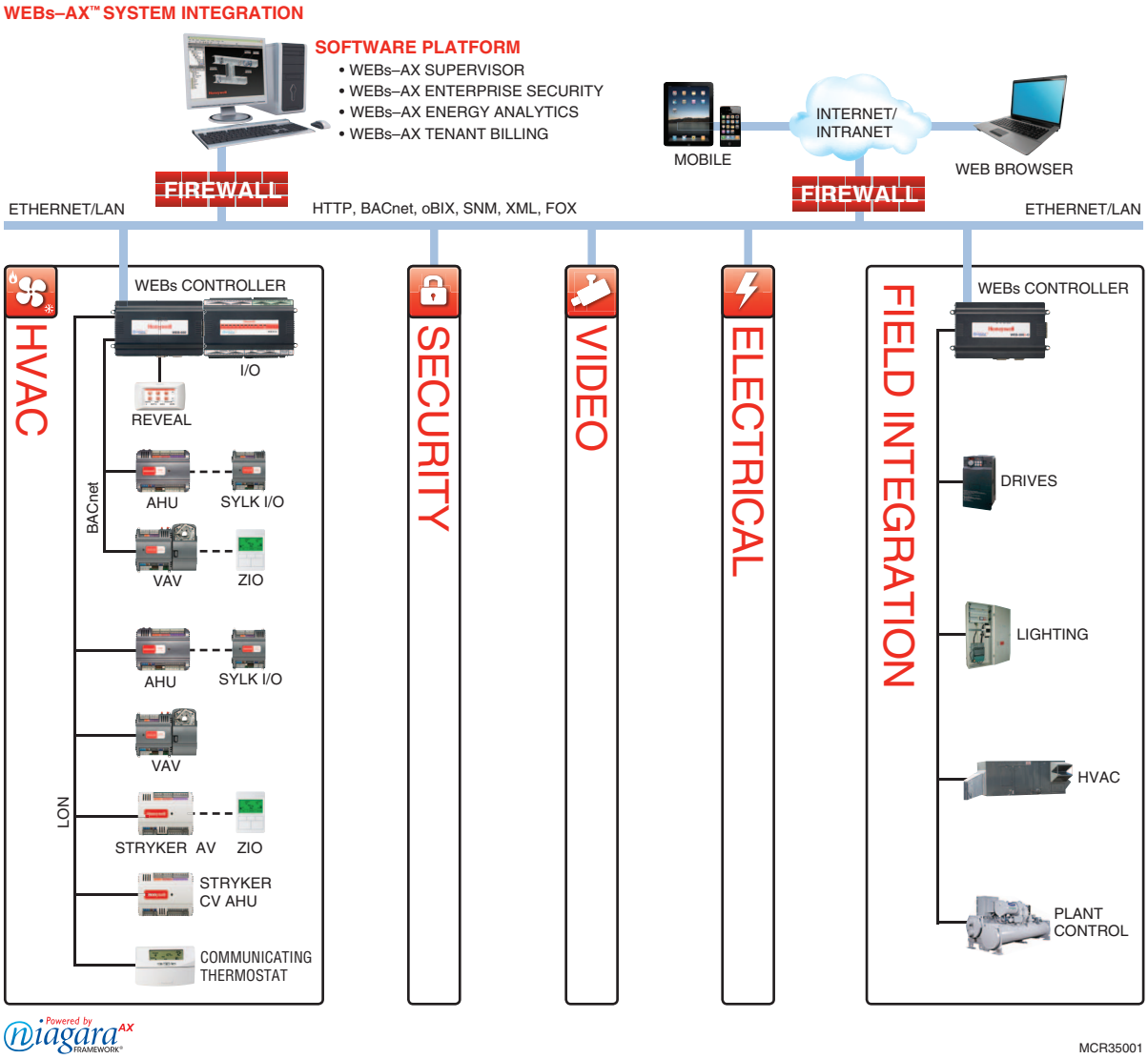

Fig. 1. Architecture

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