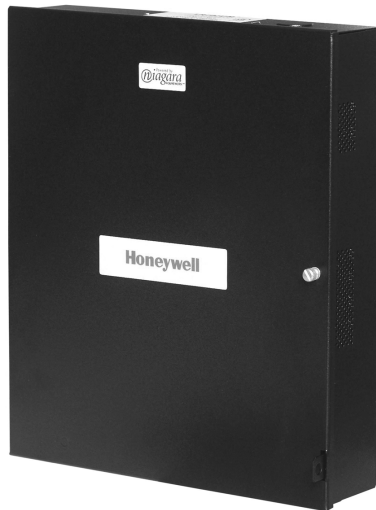


# WEB-545-AX, WEB-545-AX-E

## SPECIFICATION DATA



## FEATURES

- Embedded RISC Microprocessor platform.
- One LON<sup>®</sup> FTT10A port for LON device integration.
- Four RS-485 ports (electrically isolated) for connection to open and proprietary protocol devices.
- Two RS-232 ports for Integration or support of an optional internal modem.
- Optional User Interface (Web Server) to serve graphical information to a standard Web Browser.
- Optional connectivity services to enable the WEB-545-AX to communicate with other WEBs<sup>AX</sup> or to the WEBs<sup>AX</sup> Supervisor.
- Optional Autodial/Auto-answer 56 Kbps internal modem for phone communications to browser or remote engineering access.

## GENERAL

WEBs<sup>AX™</sup> is a product suite developed on the Niagara Framework<sup>®</sup> that provides an end-to-end building automation solution. Users can seamlessly integrate LONWORKS<sup>®</sup>, BACnet<sup>®</sup> IP (client), BACnet MSTP, Modbus<sup>®</sup>, OPC<sup>®</sup> and other standard protocols with legacy systems to provide a unified real-time controls network. The suite includes a browser-based graphical user interface allowing users to view and manipulate underlying systems without the need for dedicated workstations or client software.

WEBs<sup>AX</sup> provides the ability to create a customized user interface that combines intuitive navigation screens with dynamic, real-time displays. Third party graphic images, jpegs and gif images can also be used in the creation of the user interface. Unique software technology eliminates the need for page refreshes or polling for data updates, thereby minimizing required bandwidth.

WEBs<sup>AX</sup> products bundle this software capability in a hardware platform that can be installed in typical building control environments. WEBs<sup>AX</sup> connects to system field busses and provides real-time control functions as constant streams of data from individual systems instantaneously transform to a common object model within WEBs<sup>AX</sup>. WEBs<sup>AX</sup>

provides a fully distributed system when multiple units are networked together, which provides unsurpassed scalability and reliability. In this configuration, the WEBs<sup>AX</sup> Supervisor<sup>™</sup> can be used to network WEBs<sup>AX</sup> controllers and manage enterprise-level control functions. The appropriate WEBs<sup>AX</sup> model is determined by connectivity and computing requirements.

## APPLICATIONS

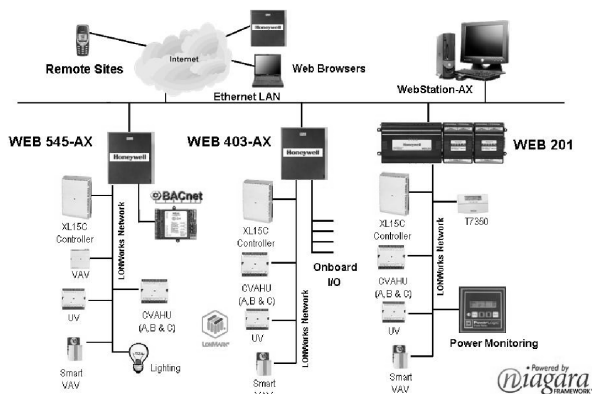
Specifically designed for commercial applications, the WEB-545-AX is ideally suited for users who require a controller that can be wall or enclosure mounted. A single WEB-545-AX controller can support a network of devices via the LONWORKS port and auxiliary devices that can be accessed directly via onboard I/O, or through the four RS-485 ports, or an RS-232 port (unless used by the optional internal modem).

The WEB-545-AX can integrate any combination of LON, Modbus, BACnet, or legacy devices with the appropriate optional drivers.



## ORDERING INFORMATION

Part Number	Description
WEB-545-AX	Basic WEB-545-AX
UI-SP-5XX	Optional Web User Interface (Web Server)
EC-SP-5XX	Optional Enterprise Connectivity (enables WEBStation <sup>AX</sup> Supervisor communications links and BACnet Export capability)
WEB-545-EZ	EZ order bundle including WEB-545-AX, EC-SP-5XX and UI-SP-5XX
MODEM-401	Optional dial-up modem for the WEB-545-AX
WEB-545-AX-E	WEB-545-AX Extended Memory Version



## SPECIFICATIONS

### Platform

Motorola® RISC Processor @ 250 MHz.  
 Java™ Application Control Engine - with direct I/O support objects.  
 128 MB RAM, 32 MB Flash for database backup.  
 Extended Memory (E) version: 256 MB RAM, 128 MB Flash.  
 One 10/100 Mb Ethernet RJ-45 connector.  
 FCC Class "A" computing Device.

### Communications

One LONWORKS port - FTT-10 with Weidmuller connector.  
 Optional auto-dial /auto-answer 56K modem; RJ-11 connector (uses one RS-232 port when installed).  
 LON, BACnet IP Client and BACnet MSTP driver included.

### Operating System

QNX® Operating System with IBM® J9™ Java Virtual Machine.  
 Java Application Control Engine Niagara<sup>AX</sup> Software.

### Power Supply

120 Vac, 50/60 Hz.  
 25 VA maximum.  
 Lead wires for hot/neutral (wire nut), stud for ground connection.

### Battery Backup

Battery backup provided for all onboard functions.  
 Battery is monitored and trickle charged.  
 Battery maintains processor operation through power failures for a pre-determined interval, then writes all data to flash memory, shuts processor down, and maintains clock for a minimum of five years.

### Chassis

Housed in metal enclosure.  
 Intended for indoor wall mounting only.  
 Cooling: Internal air convection.  
 Dimensions: 11 in. (279 mm) wide X 14 in. (356 mm) high X 2-1/2 in. (63 mm) deep.  
 Weight:  
 Net: 4 lbs. (1.81 kg).  
 Gross: 5 lbs. (2.27 kg).

### Agency Listings

UL 916.  
 C-UL listed to Canadian Standards Association (CSA) C22.2 No. 205-M1983 "Signal Equipment".  
 CE.  
 FCC part 15 Class A.

### Environment

Operating temperature range: 32 to 122° F (0 to 50° C).  
 Storage Temperature range: 32 to 158° F (0 to 70° C).  
 Relative humidity range: 5% to 95%, non-condensing.

### Other

Maximum LON devices = up to 124.  
 Maximum MSTP devices per RS-485 port = 31 standard load; 124.25 load devices; requires one MSTP driver per port.  
 Port speeds supported are:  
 4,800 baud  
 9,600 baud  
 19,200 baud  
 38,400 baud  
 57,600 baud  
 76,800 baud

*BACnet<sup>®</sup> is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).*

*IBM<sup>®</sup> is a registered trademark and J9<sup>™</sup> is a trademark of International Business Machines Corp.*

*Internet Explorer<sup>®</sup> and Windows<sup>®</sup> are registered trademarks of Microsoft Corp.*

*Java<sup>™</sup> is a trademark of Sun Microsystems, Inc.*

*LON<sup>®</sup> and LONWORKS<sup>®</sup> are registered trademarks of Echelon Corp.*

*Modbus<sup>®</sup> is a registered trademark of Schneider Automation, Inc.*

*Motorola<sup>®</sup> is a registered trademark of Motorola, Inc.*

*Niagara Framework<sup>®</sup> is a registered trademark and the Niagara Framework logo is a trademark of Tridium, Inc.*

*OPC<sup>®</sup> is a registered trademark of the OPC Foundation.*

*QNX<sup>®</sup> is a registered trademark of Quantum Software Systems, Ltd.*

*WEBS<sup>AX</sup> Supervisor<sup>™</sup> and WEB<sup>AX</sup><sup>™</sup> is a trademark of Honeywell International, Inc.*

**Automation and Control Solutions**

Honeywell International Inc.  
1985 Douglas Drive North  
Golden Valley, MN 55422  
[customer.honeywell.com](http://customer.honeywell.com)

Honeywell Limited-Honeywell Limitée  
35 Dynamic Drive  
Toronto, Ontario M1V 4Z9



**Honeywell**