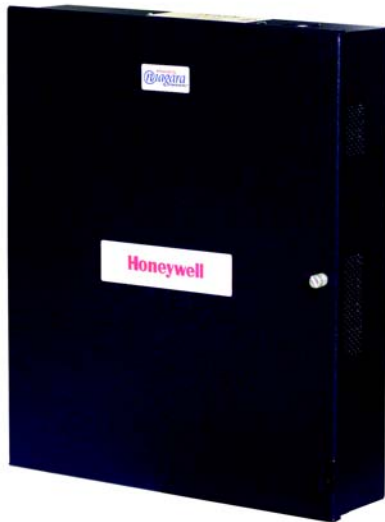


# WEB-603

## SPECIFICATION DATA



## OVERVIEW

Honeywell's WEB-603 is an embedded controller/server platform designed for remote monitoring and control applications. The unit combines integrated control, supervision, data logging, alarming, scheduling and network management functions, integrated IO with Internet connectivity and web serving capabilities in a small, compact platform. The WEB-603 makes it possible to control and manage external devices over the Internet and present real time information to users in web-based graphical views.

In addition to supporting WEBs-AX Framework applications, the WEB-603 can optionally support Niagara R2 applications. This option provides the ideal platform for projects currently utilizing WEBs-R2 technology where a cost effective migration to the flagship WEBs-AX Framework is desired. The WEBs-AX platform can be installed and optionally configured to support a facility utilizing a WEBs-R2 Framework application today. At a later date, the facility can migrate to a WEBs-AX Framework application, thus spreading the cost of the migration across multiple phases.

The WEB-603 is part of WEBs-AX portfolio of Java-based controller/server products, software applications and tools, designed to integrate a variety of devices and protocols into unified, distributed systems. WEBs products are powered by the NiagaraAX Framework®, the industry's leading software

technology that integrates diverse systems and devices into a seamless system. WEBs-AX supports a range of protocols including LonWorks®, BACnet®, Modbus, oBIX and many Internet standards. The WEBs-AX Framework also includes integrated management tools to support the design, configuration and maintenance of a unified, real-time controls network. The integral IO, LonWorks® FTT-10A port, RS-485 port, RS-232 port, metal enclosure and line voltage input power supply, make this platform ideal for a wide variety of integration applications.

## APPLICATIONS

The WEB-603 is ideal for smaller facilities, remote sites, and for distributing control and monitoring throughout large facilities. It is also ideal for managing and controlling today's energy applications. On-board universal inputs and Form C relay outputs are available for applications where local control is required. The WEB-603 includes one LonWorks® FTT-10A port and one RS-485 port providing support for a wide range of field buss connections to remote I/O and stand-alone controllers. In small facility applications, the WEB-603 is all you need for a complete system. The WEB-603 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 WEB-603 controllers into a single unified application.

## FEATURES

- **Embedded PowerPC Platform@ 524MHz**
- **One LON FTT10A port for LON device integration**
- **Direct, on-board I/O with six universal inputs, and 4 Form C relay outputs**
- **One RS-485 port for connection to open and proprietary protocol devices**
- **One RS-232 port for Integration or technical support**
- **Web UI services to support many simultaneous users over the intranet or Internet via a standard web browser**
- **One option slot supporting NPB-XXX option modules**



## ORDERING INFORMATION

Item	Description
WEB-603-AX	Base Unit including two Ethernet ports, one RS-232 port, one RS-485 port, one LonWorks® FTT-10A port, six universal inputs, four Form C relay outputs, and closed NiCS. Web User Interface and Niagara Connectivity included. oBIX Client/Server driver included.
WEB-603-AX-O	Base Unit including two Ethernet ports, one RS-232 port, one RS-485 port, one LonWorks® FTT-10A port, six universal inputs, four Form C relay outputs, and open NiCS. Web User Interface and Niagara Connectivity included. oBIX Client/Server driver included.
WEB-603I-AX	International version of Base Unit including two Ethernet ports, one RS-232 port, one RS-485 port, one LonWorks® FTT-10A port, six universal inputs, four Form C relay outputs, and closed NiCS. Web User Interface and Niagara Connectivity included. oBIX Client/Server driver included.
WEB-603I-AX-O	International version of Base Unit including two Ethernet ports, one RS-232 port, one RS-485 port, one LonWorks® FTT-10A port, six universal inputs, four Form C relay outputs, and open NiCS. Web User Interface and Niagara Connectivity included. oBIX Client/Server driver included.
WEB-R2-6XX	Capability to utilize a WEBs R2 based application.
NPM-256MB	Upgrade RAM memory to 256 MB DDR.

Note: Refer to current price list for additional options.

## SPECIFICATIONS

### Platform

PowerPC 440 524 MHz processor  
128MB DDR RAM & 128 MB Serial Flash  
Optional 256 MB DDR RAM  
SLA Battery Backup  
Real-time clock

### Communications

Two 10/100 Mb Ethernet port – RJ-45 connection  
One RJ-45 connector for RS-232 port  
One screw terminal RS-485 port (up to 78,600 baud for MSTP)  
One LonWorks port – FTT-10A with Weidmuller connector  
One option slot (see available option modules below)

### Battery Backup

Battery backup provided for all on board 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.

### Available WEBs-AX Option Modules

Item	Description
NPB-LON	LON® Card
NPB-RS232	RS 232 Card
NPB-2X-RS485	Dual Port RS 485 Card
NPB-ZWAVE	ZWAVE Card Only
NPB-SED-001	Sedona Wired/Wireless Card

### Operating System

QNX Real-time Operating System  
Sun HotSpot JVM Java Virtual Machine  
WEBs-AX 3.6.45 or later

### Power Supply

WEB-603-AX: 120VAC, 50/60 Hz  
WEB-603I-AX: 230VAC, 50/60 Hz  
25 VA maximum.

Lead wires for hot/neutral (wire nut), stud for ground connection. WEB-T-403I has two-screw terminal strip for AC power connections, plus a stud for ground.

### Chassis

Housed in metal enclosure; intended for indoor wall mounting only.

Cooling: Internal air convection

Dimensions: 11 in. wide X 14 in. high X 2.5 in. deep  
(27.94 cm wide X 35.56 cm high X 6.35 cm deep)

Weight: Net 4 lbs. (1.814 kg), Gross 5 lbs. (2.268 kg).

### Environment

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

### Inputs/Outputs

Four Form C (SPDT) relay outputs rated for 24 VAC/DC @ 2 Amps resistive.

One LED indicator for each relay.

Six Universal Inputs for 10K ohm Type III (10K 4A1-International) Thermistor, 4/20 mA current loop, 0 to 10 volt, or dry contact.  
12-bit A/D converter.

Thermistor Sensor Range -23.3°C to 57.2°C (-10° to 135°F). Input accuracy is in the range of ±1% of span, type III thermistor curve supported.

0 –10 volt or 4/20 mA accuracy is ±2% of span, without user calibration. Uses an external resistor for current input (four provided). Self powered or board powered sensors accepted.

Dry contacts (on UI) 20 Hz max. frequency (25 ms minimum pulse width). 3V open circuit, 300 mA short-circuit current.

Board provides 20 VDC @ 80 mA to drive 4/20 mA powered sensors.  
 24 VDC terminal and external resistor can be used if monitoring contacts that require higher voltages or higher current.  
 All I/O connections are screw terminals on 0.2" centers.

- 19,200 baud
- 38,400 baud
- 57,600 baud
- 76,800 baud

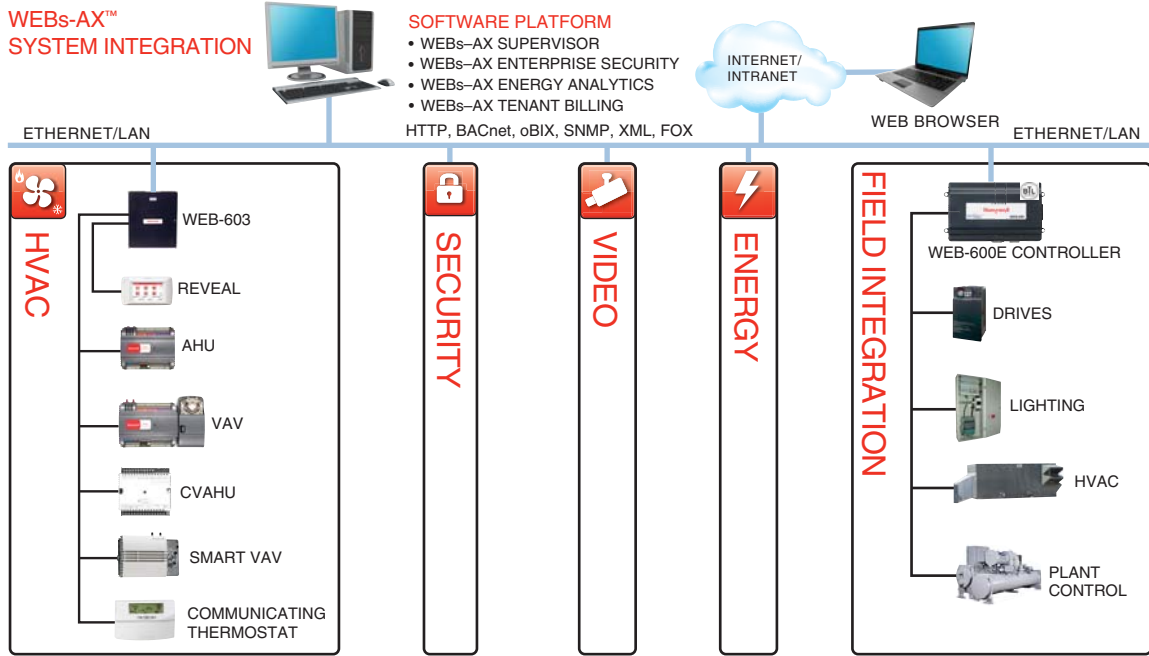
**Other**

Maximum Lon devices = up to 124  
 Maximum MSTP devices per RS-485 port = 31 standard load  
 124-¼ load devices; requires one MSTP driver per port.  
 Port speeds supported are:  
 4,800 baud  
 9,600 baud

**Agency Listings**

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

# ARCHITECTURE



MCR34240

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**Automation and Control Solutions**

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