WEB-8000 Controller

OVERVIEW

The WEB-8000 is a compact, embedded IoT (Internet of Things) controller and server platform for connecting multiple and diverse devices and sub-systems. With Internet connectivity and Webserving capability, the WEB-8000 controller provides integrated control, supervision, data logging, alarming, scheduling and network management. It streams data and rich graphical displays to a standard Web browser via an Ethernet or wireless LAN, or remotely over the Internet.

The licensing model for the WEB-8000 controller is simplified and features standard drivers along with optional IO and field bus expansion modules for ultimate flexibility and expandability. The WEB-8000 controller operates with WEBs-N4, the latest version of the Niagara Framework®, for optimum performance. In larger facilities, multibuilding applications and large-scale control system integrations, WEBs-N4 Supervisor can be used with WEB-8000 controllers to aggregate information, including real-time data, history and alarms, to create a single, unified application.

SPECIFICATIONS

TI AM3352: 1000MHz ARM® Cortex™-A8
1GB DDR3 SDRAM
Removable micro-SD card with 4GB flash total storage/ 2GB user storage
Wi-Fi (Client or WAP)
IEEE802.11a/b/g
IEEE802.11n HT20 @ 2.4GHz
IEEE802.11n HT20/HT40 @ 5GHz
Configurable radio (Off, WAP, or Client)
WPAPSK/WPA2PSK supported
USB type A connector
Back-up and restore support
(2) isolated RS-485 with selectable bias and termination
(2) 10/100MB Ethernet ports
Secure boot
24VAC/DC power supply
Runs WEBs-4.1 and later
Real time clock
Batteryless
Expansion Module and IO Configurations

**MAXIMUM EXPANSION MODULES SUPPORTED**
- NPB-8000-LON: 4
- NPB-8000-232: 4
- NPB-8000-2X-485: 2

**MAXIMUM IO MODULES SUPPORTED**
- IO-16-REM-H: 16*
  * Remote IO connection using RS-485 wiring

**AGENCY CERTIFICATIONS**
- UL 916
- CE EN 61326-1
- FCC Part 15 Subpart B, Class B
- FCC Part 15 Subpart C
- C-UL listed to Canadian Standards Association (CSA)
- C22.2 No. 205-M1983
- “Signal Equipment”
- 1999/5/EC R&TTE Directive
- CCC
- SRRC
- RSS
- ROHS

**ENVIRONMENTAL SPECIFICATIONS**
- Operating temperature: -20–60°C
- Storage temperature: -40–85°C
- Humidity: 5%–95% — Non condensing
- Shipping & vibration: ASTM D4169, Assurance Level II
- MTTF: 10 years+
WEB-8000 CONTROLLER MOUNTING & DIMENSIONS

1. WEB-8000 controller. Allow at least 1.5" (38mm) clearance around all sides and minimum 3" (76mm) at bottom for Wi-Fi antenna.
2. Expansion module. Up to four (4) may be used.
3. See “Expansion Module and IO Configurations” Distances between center of tabs from one unit to another unit

Compatible with (DIN43880) enclosures

Suitable for mounting to a panel or to an EN50022 standard 35mm rail
## ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEB-8000</td>
<td>Base unit includes two isolated RS485 ports, two 10/100MB Ethernet ports, USB Backup &amp; Restore and Wi-Fi connectivity</td>
</tr>
<tr>
<td>WEB-8000-DEMO</td>
<td>Base unit includes two isolated RS485 ports, two 10/100MB Ethernet ports, USB Backup &amp; Restore, Wi-Fi connectivity, all available Tridium drivers and a 500 device license. Hardware Accessories purchased separately</td>
</tr>
<tr>
<td>NC-8005</td>
<td>Up to 5 devices/250 point core</td>
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<tr>
<td>NC-8010</td>
<td>Up to 10 devices/500 point core</td>
</tr>
<tr>
<td>NC-8025</td>
<td>Up to 25 devices/1,250 point core</td>
</tr>
<tr>
<td>NC-8100</td>
<td>Up to 100 devices/5,000 point core</td>
</tr>
<tr>
<td>NC-8200</td>
<td>Up to 200 devices/10,000 point core</td>
</tr>
<tr>
<td>DEVICE-10</td>
<td>Up to 10 devices/500 point upgrade (can be purchased during initial licensing)</td>
</tr>
<tr>
<td>DEVICE-25</td>
<td>Up to 25 devices/1,250 point upgrade (can be purchased during initial licensing)</td>
</tr>
<tr>
<td>DEVICE-50</td>
<td>Up to 50 devices/2,500 point upgrade (can be purchased during initial licensing)</td>
</tr>
<tr>
<td>DEVICE-UP-10</td>
<td>Up to 10 devices/500 point upgrade (can be purchased post initial licensing)</td>
</tr>
<tr>
<td>DEVICE-UP-25</td>
<td>Up to 25 devices/1,250 point upgrade (can be purchased post initial licensing)</td>
</tr>
<tr>
<td>DEVICE-UP-50</td>
<td>Up to 50 devices/2,500 point upgrade (can be purchased post initial licensing)</td>
</tr>
<tr>
<td>WEB-8000-AX</td>
<td>Enables WEB-8000 controller to run Webs-AX (3.8U). 3.8U Build with JACE 8000 controller support</td>
</tr>
<tr>
<td>NPB-8000-2X-485</td>
<td>WEB-8000 controller — add on dual port RS-485 module</td>
</tr>
<tr>
<td>NPB-8000-LON</td>
<td>WEB-8000 controller — add on single port LON FTT10A module</td>
</tr>
<tr>
<td>NPB-8000-232</td>
<td>WEB-8000 controller — add on single port RS-232 module</td>
</tr>
<tr>
<td>WPM-8000</td>
<td>Universal power supply for WEB-8000 controller</td>
</tr>
<tr>
<td>T-IO-16-485</td>
<td>Remote IO module, compatible with the WEB-8000 controller. Communication using RS 485, maximum IO supported IO-16-REM-H modules: 16</td>
</tr>
<tr>
<td>NPB-PWR-H</td>
<td>24V power supply for IO-16-REM-H</td>
</tr>
<tr>
<td>NPB-PWR-UN-H</td>
<td>Universal power supply for IO-16-REM-H</td>
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</tbody>
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* All NC-8XXX parts include a WEBs-N4 license and Tridium’s standard driver suite. Please see Tridium standard driver suite documentation for more details.

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