

▶ Delta Niagara

JACE® 8000 Controller

Description

The JACE 8000 is a compact, embedded Niagara Framework®-based controller and server platform for connecting multiple and diverse devices and sub-systems. With internet connectivity and web-serving capability, the JACE 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 JACE 8000 controller features standard drivers along with optional IO and field bus expansion modules for ultimate flexibility and expandability.

The JACE 8000 controller is optimized for the Niagara 4 platform. In larger facilities, multi-building applications and large-scale control system integrations, Niagara 4 Supervisors can be used with JACE 8000 controllers to aggregate information, including alarms, and historical and real-time data, 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/n

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

Supply requirements: 24VAC rated at
24VA minimum, or 24VDC rated at 1A
(24W) minimum**

Runs Niagara AX: 3.8u1 and later

Runs Niagara 4: 4.1 and later

Niagara Analytics 1.1 requires Niagara
AX 3.8u1 or later update builds

Niagara Analytics 2.0 requires Niagara
4.2 and later

Real-time clock

Batteryless

* Not supported with Niagara AX

** Niagara Enterprise Security requires 4 hours of
standby power

Delta Niagara

Ordering Hardware

Contact Delta Controls Orders or Inside Sales to order the JACE 8000[†] controller using the following product numbers:

| | |
|------------------------|--|
| JACE-8000 | Controller, 2 RS-485 ports, 2 10/100 MB Ethernet ports, USB backup and restore, Wi-Fi connectivity |
| JACE-8000-DEMO | JACE 8000 controller with standard drivers and a 500 device license. Hardware accessories sold separately. |
| NPB-8000-2X-485 | Add on dual port RS-485 module |
| NPB-8000-LON | Add on single port LON FTT10A module |
| NPB-8000-232 | Add on single port RS-232 module |
| WPM-8000 | Universal power supply for JACE 8000 controller |
| IO-R-16 | Optional 16 point IO RS485 module, 8 Universal Inputs, 4 Form A Relay Outputs, 4 0-10 VDC Analog Outputs |
| IO-R-34 | Optional 34 point IO RS485 module, 16 Universal Inputs, 10 Form A Relay Outputs, 8 0-10 VDC Analog Outputs |

[†] JACE 8000 include a Niagara 4 license and standard drivers. See Tridium's Niagara 4 drivers documentation for more details.

Ordering License or Driver Options

Go to Niagara Central (<https://www.niagara-central.com/service/home>) and order JACE license configurations using the following product numbers:

| | |
|---------------------|--|
| NC-8xxx-DEMO | JACE-8000-DEMO with 500 Device Core. Includes standard drivers. Requires Niagara 4.1 or higher. License renews annually with annual support fee. |
| NC-8005 | Up to 5 devices/250 point core |
| NC-8010 | Up to 10 devices/500 point core |
| NC-8025 | Up to 25 devices/1,250 point core |
| NC-8100 | Up to 100 devices/5,000 point core |
| NC-8200 | Up to 200 devices/10,000 point core |
| DEVICE-10 | Add 10 devices/500 points to initial order |
| DEVICE-25 | Add 25 devices/1,250 points to initial order |
| DEVICE-50 | Add 50 devices/2,500 points to initial order |
| DEVICE-UP-10 | Add 10 devices/500 points to upgrade existing license |
| DEVICE-UP-25 | Add 25 devices/1,250 points to upgrade existing license |
| DEVICE-UP-50 | Add 50 devices/2,500 points to upgrade existing license |
| JACE-8000-AX | Enables JACE 8000 controller to run Niagara AX 3.8u1 or later |

Specifications (Continued)

Environmental Specifications

Operating temperature: -20 to 60°C (-4 to 140°F)

Storage temperature: -40 to 85°C (-40 to 185°F)

Humidity: 5 to 95%, non-condensing

Shipping & vibration: ASTM D4169, Assurance Level II

MTTF: 10 years+

Agency Certifications

UL 916

CE EN 61326-1

RCM

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

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Subject to change without notice.