

JACE 9000 controller

PRODUCT DEFINITION

The JACE® 9000 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 web-serving capability, the JACE 9000 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 9000 controller is simplified and features standard drivers, along with optional IO and field bus expansion modules for ultimate flexibility and expandability. The JACE 9000 controller operates with Niagara 4, the latest version of the Niagara Framework®, for optimum performance. In larger facilities, multi-building applications and large-scale control system integrations, Niagara 4 Supervisors can be used with JACE controllers to aggregate information, including alarms, and historical and real-time data, to create a single, unified application.



HARDWARE SPECIFICATIONS

1.6GHz NXP iMX8M+ Quad Core CPU

2GB LPDDR4 RAM

8GB onboard EMMC storage

Wi-Fi (Client or WAP)

- Wi-Fi 5 (802.11ac)
- 1x1 802.11 a/b/g/n/ac
- Configurable radio (Off, WAP, or Client)
- WPA2PSK/WPA3PSK supported
- Only available for wireless model

USB type C connector

- Debug port

(2) isolated RS-485 with selectable bias and termination

(2) 10/100/1000MB Ethernet ports

Secure boot

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

Non-Wi-Fi: Supports Niagara 4.13 and later

Wi-Fi: Supports Niagara 4.15 and later

Real-time clock

Batteryless

**Niagara Enterprise Security requires four hours of standby power*

SOFTWARE & SOFTWARE MAINTENANCE

JACE 9000 non-Wi-Fi is available with a Niagara 4.13 or higher software license and Tridium’s standard drivers. JACE 9000 Wi-Fi is available with a Niagara 4.15 or higher software license and Tridium’s standard drivers. Purchase of a software maintenance agreement (SMA) is required with initial JACE licensing. The initial SMA is for 18 months, with extended agreements of 3 years and 5 years available for discounted rates.

Note: An active Software Maintenance Agreement (SMA) is required for a Niagara instance to run the latest version of Niagara. When SMA expires, the licensed version will remain at the version that's in effect at time of the expiration. To upgrade, the requisite maintenance terms (1-year, 3-year, 5-year) are required to bring the SMA expiration date to current or future date.

NIAGARA ANALYTICS

Niagara Analytics is a data analytics extension to the Niagara Framework available on JACE 9000 controllers. 25 Niagara Analytic points are included with every JACE 9000 license. Niagara Analytics licenses are conveniently and cost-effectively based on the number of analytical points and do not expire. Your Software Maintenance Agreement covers all Niagara Analytics enhancements, adding to the value of the SMA.

key features

- Data analysis at the onsite JACE controller level
- Real-time on-premise analytic control

Part number	Description
NA-EC-N4-100	Niagara Analytics Framework (on Niagara 4) license for 100 analytic points for an Embedded Controller (JACE)
NA-EC-N4-250	Niagara Analytics Framework (on Niagara 4) license for 250 analytic points for an Embedded Controller (JACE)
NA-EC-N4-500	Niagara Analytics Framework (on Niagara 4) license for 500 analytic points for an Embedded Controller (JACE)
NA-EC-N4-1000	Niagara Analytics Framework (on Niagara 4) license for 1,000 analytic points for an Embedded Controller (JACE)

Find additional data sheets for Niagara Analytics and Niagara Drivers on Tridium's website

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)*

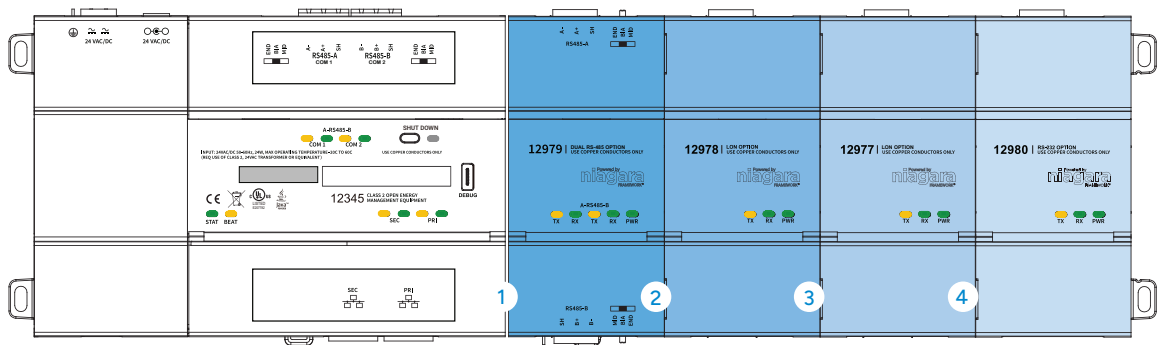
- IO-R-16 (16)*
- IO-R-34 (8)*

**See JACE IO R data sheet for configuration details*

MAXIMUM NIAGARA ENTERPRISE SECURITY (MODULES SUPPORTED)*

- T-SEC-R2R*
- T-SEC-RIO*

**16 total each or combined*



MAXIMUM COMBINATIONS

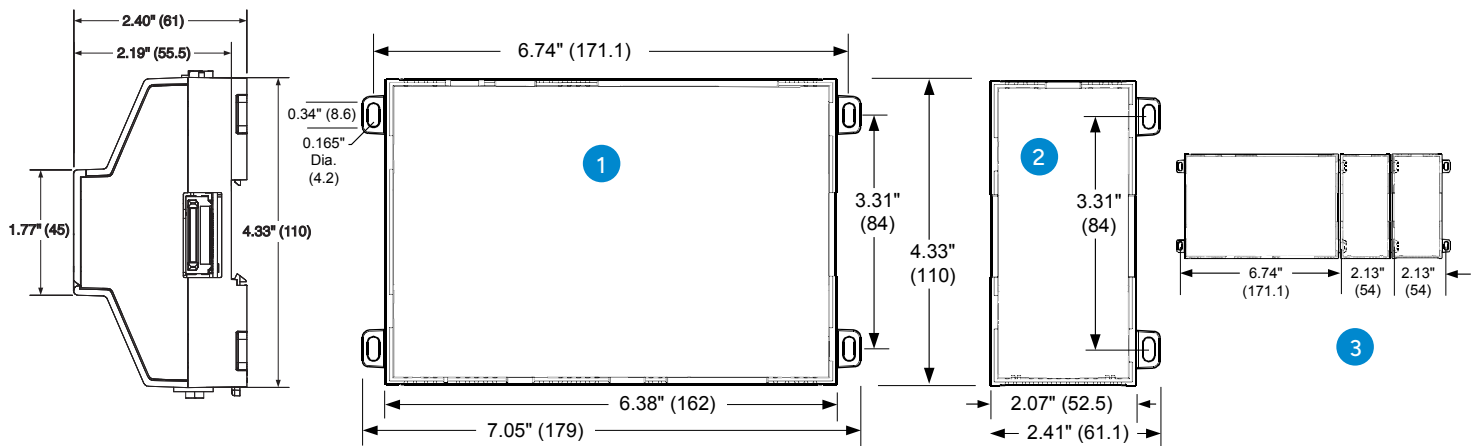
EXPANSION 1	EXPANSION 2	EXPANSION 3	EXPANSION 4
232 or LON	232 or LON	232 or LON	232 or LON
485 485	232 or LON	232 or LON	232 or LON
485 485	485 485	232 or LON	
485 485	485 485		

Expandability is dependent on the type of expansion module used



JACE® 9000 CONTROLLER MOUNTING & DIMENSIONS

- 1 JACE 9000 controller. Allow at least 1.5" (38mm) clearance around all sides and minimum 3" (76mm) at bottom for optional Wi-Fi antenna
- 2 Expansion module. Up to four (4) may be used.
See "Expansion Module and IO Configurations"
- 3 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

Vizio stencils available upon request

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
- 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+

Contact support@tridium.com
for the latest agency certifications
or global shipping guide

JACE® 9000 CONFIGURATIONS & OPTIONS

Part number	Description
JACE-9000-CSE-001, 002, 005	Base unit includes two isolated RS485 ports, two 10/100/1000MB Ethernet ports and Wi-Fi connectivity. Refer to the Global Shipping Guide for more country specific SKU.
JACE-9000-CSE-003	Identical in form and function to standard JACE 9000 model without the Wi-Fi module and peripherals.
NPB-8000-2X-485	JACE 8000 & 9000 controllers — add on dual port RS-485 module
NPB-8000-LON	JACE 8000 & 9000 controllers — add on single port LON FTT10A module
NPB-8000-232	JACE 8000 & 9000 controllers — add on single port RS-232 module
WPM-8000	Universal power supply for JACE 8000 & 9000 controllers
IO-R-16	Optional 16-point IO RS485 module designed for use with the JACE 8000 & 9000 — Includes 8 Universal Inputs, 4 Form A Relay Outputs and 4 0-10 VDC Analog Outputs
IO-R-34	Optional 34-point IO RS485 module designed for use with the JACE 8000 & 9000 — Includes 16 Universal Inputs, 10 Form A Relay Outputs and 8 0-10 VDC Analog Outputs

The JACE 9000 controller is available through a wide variety of original equipment manufacturers. Our open distribution business model and open protocol support allow a vendor-neutral application compatible with devices and systems throughout the world.



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