



JACE 9000

EMBEDDED IoT CONTROLLER/SERVER PLATFORM

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



Specifications

- NXP iMX8M+ Quad Core CPU
- 2GB LPDDR4 RAM
- 8GB onboard EMMC storage
- 8GB micro-SD card (backup media)
- 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/WPA2PSK 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
- Runs Niagara 4: 4.13 and later
- Real-time clock
- Battery less

Key Features

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



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COMPACT, EMBEDDED IoT CONTROLLER/SERVER PLATFORM

ORDERING

CORE SOFTWARE

NC-9005	JACE 9000 Supports up to 5 devices or 250 points
NC-9010	JACE 9000 Supports up to 10 devices or 500 points
NC-9025	JACE 9000 Supports up to 25 devices or 1250 points
NC-9100	JACE 9000 Supports up to 100 devices or 5000 points
NC-9200	JACE 9000 Supports up to 200 devices or 10000 points

DEVICE UPGRADE

DEVICE-5	Add 5 Device/250 Point conjunction with initial Core software
DEVICE-10	Add 10 Device/500 Point conjunction with initial Core software
DEVICE-25	Add 25 Device/1250 Point conjunction with initial Core software
DEVICE-50	Add 50 Device/2500 Point conjunction with initial Core software

HARDWARE OPTION JACE 8000 & 9000 controllers

NPB-8000-232	JACE add-on single port RS-232 module
NPB-8000-2X-485	JACE add-on dual port RS-485 module
NPB-8000-LON	Add-on single port LON FTT10A module
WPM-8000	100-240VAC, 50/60 Hz. Wall Adapter
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

CORE SOFTWARE MAINTENANCE

SMA-9XXX-1YR-INIT	Initial 18 month maintenance with initial Core software
SMA-9XXX-3YR	3 year maintenance
SMA-9XXX-5YR	5 year maintenance

Specifications (continue)

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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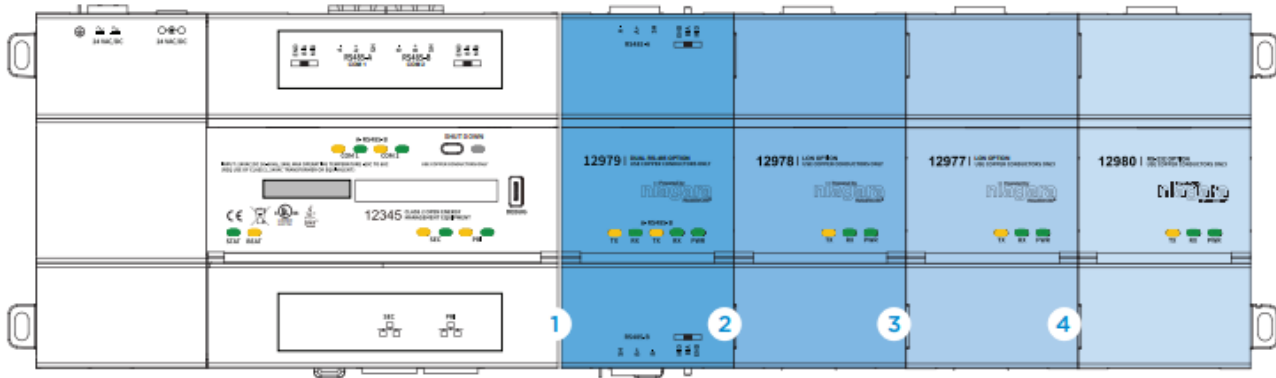
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MOUNTING AND CONFIGURATION

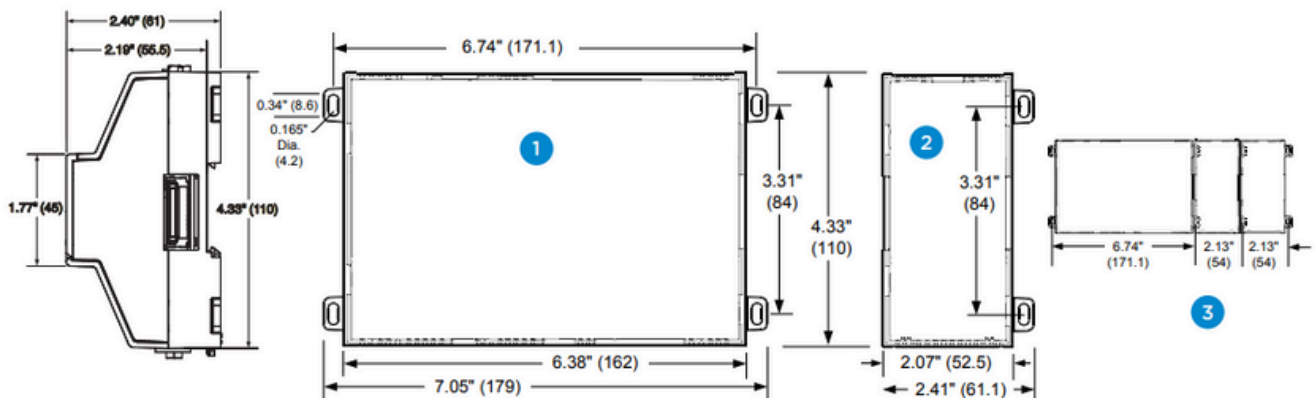
JACE® 9000 CONTROLLER MOUNTING & DIMENSIONS



MAXIMUM COMBINATION

Expandability is dependent on the type of expansion module used

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



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



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