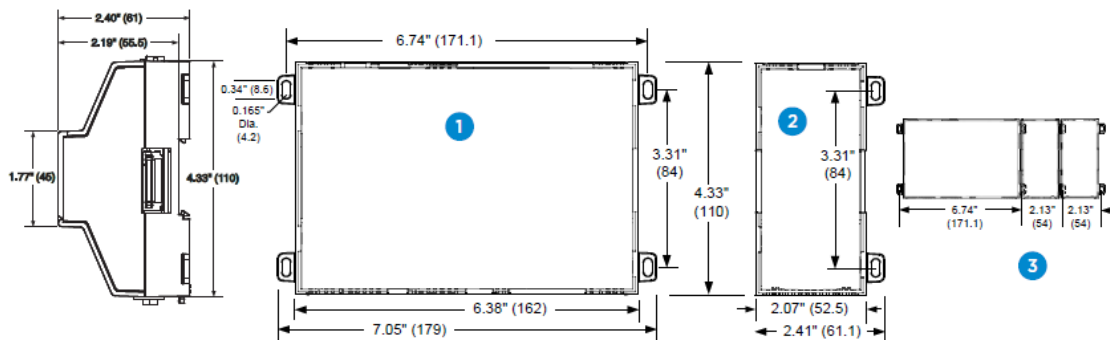# J-8000

JACE 8000 SERIES

DESCRIPTION

The JACE 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 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 is simplified and features standard drivers along with optional IO and field bus expansion modules for ultimate flexibility and expandability. The JACE 8000 controller operates with Niagara 4, the latest version of the Niagara Framework®, for optimum performance. In larger facilities, multibuilding applications and large-scale control system integrations, Niagara 4 Supervisors can be used with JACE 8000 controllers to aggregate information, including real-time data, history and alarms, to create a single, unified application.

DIMENSIONS

Compatible with (DIN43880) enclosures
Suitable for mounting to a panel or to an EN50022 standard 35mm rail

1. JACE 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. See "Expansion Module and IO Configurations"
3. Distances between center of tabs from one unit to another unit

TECHNICAL DATA

ITEM	DESCRIPTION
Supply Voltage	24Vac / 24Vdc
Operating temp. range	-20°C to 60°C
Storage temp	-40°C to 85°C
Operating Humidity	5% to 95% RH non-condensing
Shipping & Vibration	ASTM D4169, Assurance Level II
MTTF	10 Years +
HARDWARE 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
	Runs Niagara 4.1 and later
	Real time clock
	Batteryless
ORDERING REFERENCES	
JACE-8000	Base unit includes two isolated RS485 ports, two 10/100MB Ethernet ports, USB Backup & Restore and Wi-Fi connectivity
JACE-8000-DEMO	Base unit includes two isolated RS485 ports, two 10/100MB Ethernet ports, USB Backup & Restore, Wi-Fi connectivity, all available Tridium drivers and a 500 device license. Hardware Accessories purchased separately
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	Up to 10 devices/500 point upgrade (can be purchased during initial licensing)
DEVICE-25	Up to 25 devices/1,250 point upgrade (can be purchased during initial licensing)
DEVICE-50	Up to 50 devices/2,500 point upgrade (can be purchased during initial licensing)
DEVICE-UP-10	Up to 10 devices/500 point upgrade (can be purchased post initial licensing)
DEVICE-UP-25	Up to 25 devices/1,250 point upgrade (can be purchased post initial licensing)
DEVICE-UP-50	Up to 50 devices/2,500 point upgrade (can be purchased post initial licensing)
JACE-8000-AX	Enables JACE® 8000 controller to run Niagara AX (3.8U). 3.8U Build with JACE 8000 controller support
NPB-8000-2X-485	JACE 8000 controller — add on dual port RS-485 module
NPB-8000-LON	NPB-8000-LON JACE 8000 controller — add on single port LON FTT10A module
NPB-8000-232	JACE 8000 controller — add on single port RS-232 module
WPM-8000	Universal power supply for JACE 8000 controller
T-IO-16-485	Remote IO module, compatible with the JACE 8000 controller. Communication using RS 485, maximum IO supported T-IO-16-485 modules: 16
T-NPB-PWR	24V power supply for T-IO-16-485
T-NPB-PWR-UN	T-NPB-PWR-UN Universal power supply for T-IO-16-485