KMN-J-8000

JACE Controller

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OVERVIEW

The KMN-J-8000 is a compact, embedded Niagara Framework-based controller and server platform for connecting multiple and diverse devices and sub-systems. The controller is designed as a Network Automation Controller optimized for BAS applications. With Internet connectivity and web-serving capability, the KMN-J-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 LAN or remotely over the Internet.

The controller is optimized for Niagara 4, which takes the Internet of Things "defense-in-depth" approach to security. In larger facilities, multi-building applications, and large-scale control system integrations, Niagara 4 Supervisors can be used with KMN-J-8000 controllers to aggregate information, including real-time data, history, and alarms, to create a single, unified application.

LICENSING

For ultimate flexibility and expandability, the licensing model for the KMN-J-8000 controller includes standard drivers along with optional IO and field bus expansion modules. The controller requires an annual maintenance license that is available for 1, 3, or 5 years. The initial maintenance license is a separate line item that must be chosen at the time of purchase.

SPECIFICATIONS

- TI AM3352: 1000MHz ARM® Cortex™-A8 with secure boot
- 1GB DDR3 SDRAM
- Removable micro-SD card with 4GB flash total storage/2GB user storage
- USB type A connector for back-up and restore support
- (2) isolated RS-485 with switch-selectable bias and termination
- (2) 10/100MB Ethernet ports
- 24 VAC/VDC power supply
- Real-time clock
- Batteryless
- Supports SSL and TLS encryption

Powered by niagara FRAMEWORK®

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+

AGENCY LISTINGS

- 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

COMMUNICATION MODULES

The controller supports a maximum of four expansion modules across all option types. If two Dual RS-485 modules are used, only one additional non-RS-485 module may be added for a maximum total of three modules.

EXPANSION IO

The KMN-J-8000 supports a maximum of eight (8) IO-R-34 or sixteen (16) IO-R-16 expansion modules connected remotely via RS-485.

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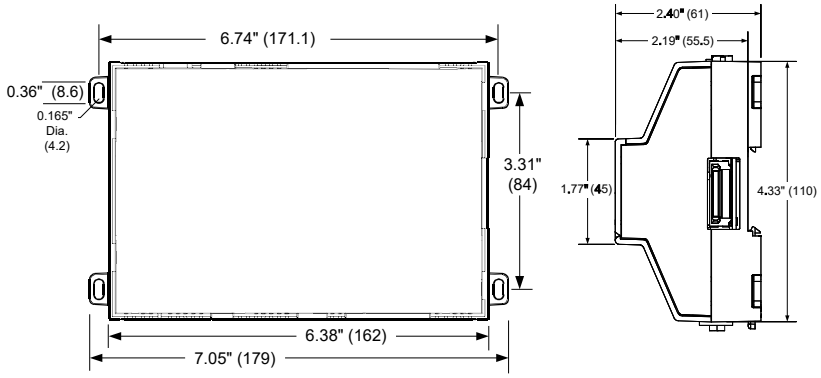
DIMENSIONS

Allow at least 1.5 inches (3.8 cm) clearance around all sides and 3 inches (7.6 cm) around the Wi-Fi antenna.



ORDERING INFORMATION

JACE and Options

DESCRIPTION	MODEL
KMC Converge	CONVERGE
KMC Converge-GFX	CONVERGE-GFX
JACE 8000 for 5 devices/250 point core	KMN-J-8005
JACE 8000 for 10 devices/500 point core	KMN-J-8010
JACE 8000 for 25 devices/1,250 point core	KMN-J-8025
JACE 8000 for 100 devices/5,000 point core	KMN-J-8100
JACE 8000 for 200 devices/10,000 point core	KMN-J-8200
Add 1 device/50 points to JACE 8000 license	DEVICE-1
Add 10 devices/500 points to JACE 8000 license	DEVICE-10
Add 25 devices/1,250 points to JACE 8000 license	DEVICE-25
Add 50 devices/2,500 points to JACE 8000 license	DEVICE-50

Optional Modules

DESCRIPTION	MODEL
Add-on dual port RS-485 expansion module for KMN-J-8000 controller	NPB-8000-2X-485
Add-on single port LON FTT10A expansion module for KMN-J-8000 controller	NPB-8000-LON
Add-on single port RS-232 expansion module for KMN-J-8000 controller	NPB-8000-232
Remote 34-point IO expansion module. Powered by 24 VAC. Capable of powering four (4) IO-R-16 modules.	IO-R-34
Remote 16-point IO expansion module. Powered by IO-R-34.	IO-R-16
JACE 8000 100-240 VAC, 50/60 Hz universal power supply	WPM-8000

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SUPPORT

Additional resources for installation, configuration, application, operation, programming, upgrading, and much more are available on the web at **www.kmccontrols.com**. To see all available files, log-in to the KMC Partners site.

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