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 or wireless 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 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
- 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 for back-up and restore support
- (2) isolated RS-485 with switch-selectable bias and termination
- (2) 10/100MB Ethernet ports 24VAC/DC power supply
- Runs Niagara 4.1 and later
- Real time clock
- Batteryless
- Supports SSL and TLS encryption

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
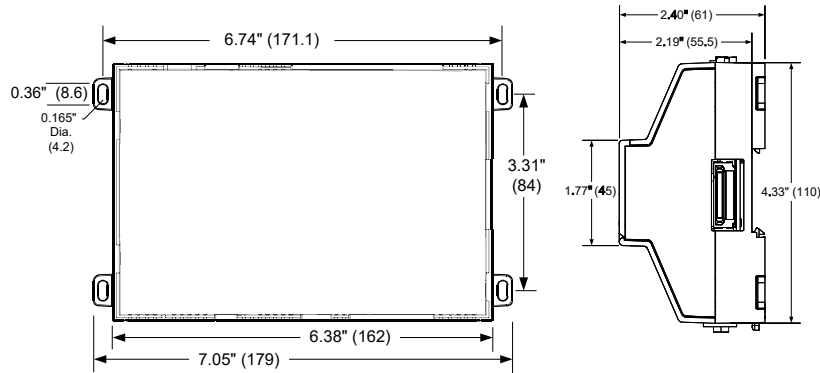- CCC
- SRRC
- RSS
- ROHS

EXPANSION MODULES

The controller supports a maximum of four expansion modules across all option types. If two Dual RS485 modules are used, only one additional non-RS485 module may be added for a maximum total of three modules.

DIMENSIONS

Allow at least 1.5 inches (38 cm) clearance around all sides and 3 inches (76 cm) around the Wi-Fi antenna.

ORDERING INFORMATION

JACE and Options

DESCRIPTION	MODEL
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 10 devices/500 points to initial order	DEVICE-10
Add 25 devices/1,250 points to initial order	DEVICE-25
Add 50 devices/2,500 points to initial order	DEVICE-50
Upgrade of 10 devices/500 points to existing license	DEVICE-UP-10
Upgrade of 25 devices/1,250 points to existing license	DEVICE-UP-25
Upgrade of 50 devices/2,500 points upgrade to existing license	DEVICE-UP-50
JACE 8000 100-240 volt universal power supply	WPM-8000

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 IO module, compatible with the JACE 8000 controller. Communication using RS-485, maximum IO supported IO-16-485 modules: 16	KMN-IO-16-485
24 volt power supply for KMN-IO-16-485	NPB-PWR
Universal power supply for KMN-IO-16-485	NPB-PWR-UN

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.