



The JACE-700 is a building automation system router and controller in a convenient DIN-rail mounted package.

It runs Niagara^{AX} revision 3.5 and higher which adds new features to the Niagara Framework such as support for touch screen displays.

Refer to Rev. 3.5 documentation for details.

VYKON JACE[®] 700 Building Automation Router Controller

Overview

The VYKON JACE-700 is a next generation Niagara Framework based product. This embedded server platform supports multiple applications such as building automation; energy management; systems integration and more. The JACE-700 adds a higher level of processing power to the JACE family of products all of which route device data to the enterprise over TCP/IP networks. New software features on this embedded server platform adds support for a touch screen display. The VYKON JACE-700 is designed to provide high performance for control functions in a convenient din-rail mounted package. VYKON JACEs can be accessed by remote Web browsers over a local Intranet; via the Internet and remotely via an optional GPRS Modem for cell phone communications.



Features

- QNX[®] Operating System with Oracle Hotspot Java 5 VM
- Supports standard Niagara Framework objects and feature set components
- Powerful 440Epx PowerPC processor@652 MHz
- 1 GB DDR2 RAM memory
- Gigabit Ethernet ports
- RS-232 and Isolated RS-485 ports
- JACE Communication option slots for communication interface cards
- Supports Serial RS-232, RS-485 communication protocols
- Supports LonWorks[®] with communication option card, BACnet[™], Modbus, Sedona Framework with wireless option card, Remote I/O modules, and future industrial field-bus interfaces, etc.
- Power - 15 volts DC @ 20 W from optional universal input Din-rail mounted supply
- Rechargeable internal NIMH battery backup and UPS, for short term power fail events
- Built-in recharging and monitoring support for an external 12V sealed lead-acid backup battery, for longer power fail durations. Built-in contact inputs are also available for external UPS monitoring
- Multiple Mounting Options – DIN rail mounting or panel mounting using tabs on unit base

Ordering Information

Item	Description
J-700	Din-Rail or Surface Mounted JACE with 1 GB MB DDR2 RAM / 512 MB Flash memory, one RS-232 and one RS-485 port, two Gigabit Ethernet ports, two standard JACE communication card slots, and internal battery backup; power module must be selected separately. Requires Niagara ^{AX} Release 3.5 or higher. Note: Base memory enables 384 MB of Java heap space.
J7-1GB-UPG	Memory license RAM upgrade to 1 GB. Note: This upgrade enables 384 MB of Java heap space.
NPB-J700-BATT	Replacement Backup battery assembly
WPM-US	Wall power module; US plug.
WPM-UK	Wall power module: UK plug.
WPM-EUR	Wall power module: European plug.
NPB-PWR-UN	Universal Power Supply module (90-263 VAC, 50/60 Hz. Din Rail or panel mount.
NPB-GPRS-W	GPRS Modem communications card with SIM card for connection via Wyless network; Wyless is the only approved service provider for the continental US, consumes one option card slot.
NPB-232	RS-232 communication card, consumes one option card slot
NPB-2X-485	Dual RS-485 communication ports on one option card; consumes one option card slot
NPB-SRAM	SRAM Option Card. Static RAM data backup card.
NPB-LON	Lon FTT10A communications card, consumes one option card slot. Lon driver must be ordered separately.

Note: Refer to current price list for additional options.

Specifications

- 652 MHz 440Epx Power PC processor
- QNX OS with IBM J9 VM (AX 3.5) or Oracle Hotspot Java 5 (AX 3.6 or higher)
- Requires Niagara^{AX} Release 3.5 or higher.
- Base unit – 1 GB DDR-2 333 MHz RAM
- 512 MB NAND flash memory on board for database storage, trend storage and system software
- Two 1 Gigabit Ethernet ports
- One RS-232 and one isolated RS-485 ports
- Internal battery backup/UPS to allow system database save after power failure, plus maintenance of Real-time clock for up to one year.
- Two JACE communication slots for optional JACE communication interface card use

Power Input

Uses WPM wall modules or NPB-PWR-UN universal power supply module. Power required is 15 volts DC at 20 watts Max.

Environmental Conditions

- 0 – 50° C, 32 - 122° F; 0-90% RH, non-condensing (for electronics)

Chassis

- Housed in molded plastic enclosure
- Cooling: Internal air convection
- Dimensions (approx): 8 1/2" length X 6" width X 2 5/8" depth (215.9 mm length X 152.4 mm width X 68.3 mm depth)
- Panel mounting via screws or standard Din rail.
- Weight: Net 4 lbs. (1.814 kg), Gross 5 lbs. (2.268 kg)

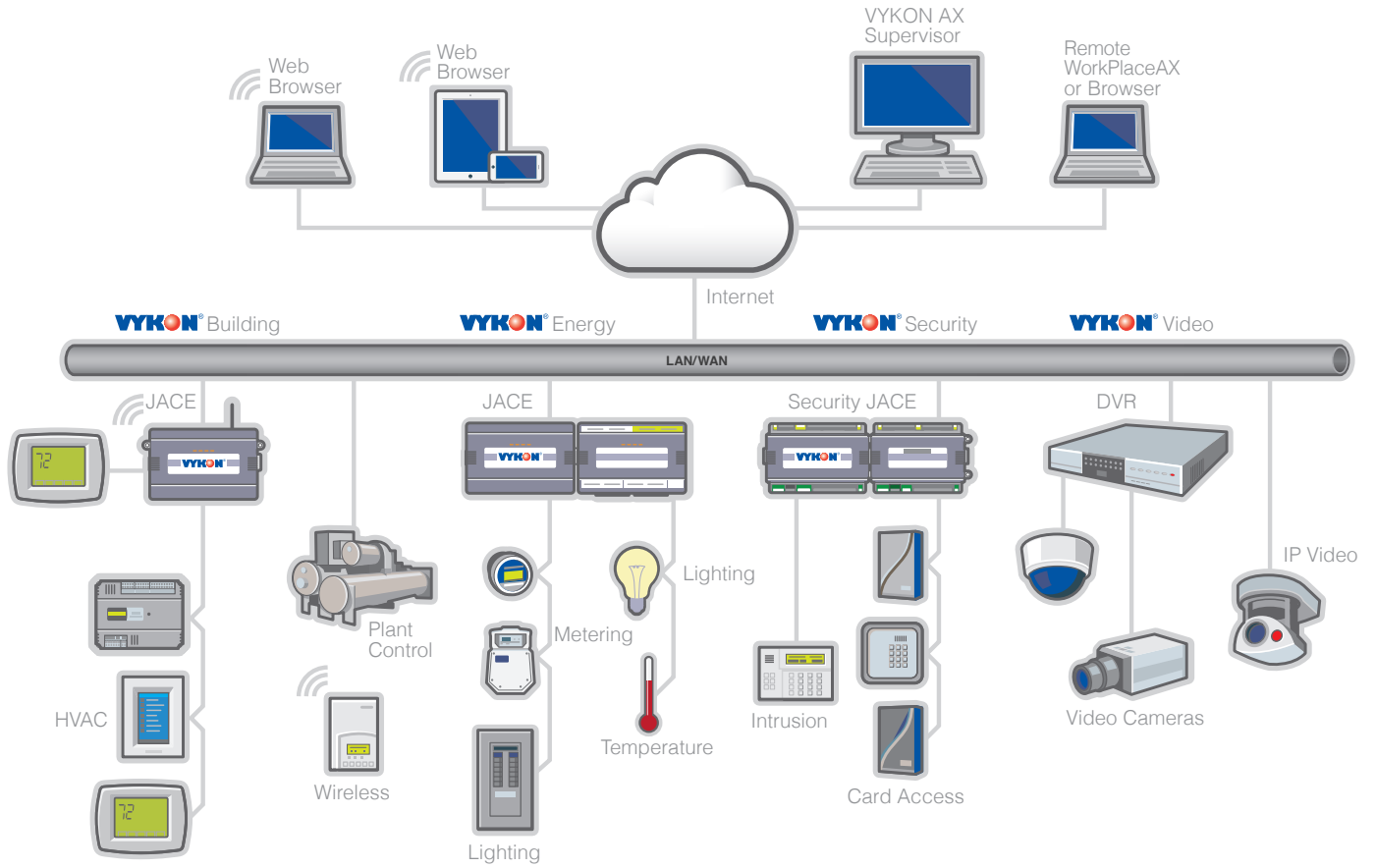
Agency listings

- UL 916
- C-UL listed to Canadian Standards Association (CSA)
- C22.2 No. 205-M1983 "Signal Equipment"
- CE
- FCC part 15 Class A.
- RoHS compliant
- BTL B-BC listed when optional BACnet driver is used



Architecture

VYKON Enterprise Integration Architecture



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