



The VYKON JACE Equipment Controller (JEC-334) is an embedded controller/server platform designed for monitoring and control applications. The JEC-334 can manage up to 150 points and is licensed for 5 remote devices on Lon, BACnet or Modbus.

## JEC-334 - JACE Equipment Controller



### Overview

The VYKON JEC-334 is part of the VYKON portfolio of Java-based controller/server products, software applications and tools, designed to integrate a variety of devices and protocols into unified, distributed systems. VYKON products are powered by the Niagara<sup>AX</sup> Framework<sup>®</sup>, the industry's leading software technology that integrates diverse systems and devices into a seamless system. The Niagara<sup>AX</sup> Framework includes integrated management tools to support the design, configuration and maintenance of a unified, real-time controls network. The Input/Output module with low voltage power supply makes this package ideal for equipment control.

### Applications

The JEC-334 is ideal for controlling and monitoring a building system including HVAC equipment, lighting, and meters. The Input/Output module provides 34 points for local control. The IO count can be expanded with up to 2 additional 16 point NDIO modules and four 16 point remote NRIO modules. In addition to local control, the JEC-334 is licensed for up to 5 remote devices that can come into the controller via Lon, BACnet, or Modbus. In total, the JEC-334 can control up to 150 points. The JEC-334 serves data and rich graphical displays to a standard web browser via an Ethernet LAN or remotely over the Internet. In larger facilities, multi-building applications and large-scale control system integrations, Niagara<sup>AX</sup> Supervisor<sup>™</sup> software can be used to aggregate information (real-time data, history, alarms, etc.) from large numbers of JACEs into a single unified application.

### Features

- 34 hardware control points (expandable with NDIO and NRIO modules).
- Pre-Licensed for five remote devices – either BACnet, Modbus, or Lon
- Web User interface serves rich presentations and live data to any browser
- Two Communications board sockets for optional communications card
- Built-in 24 volt AC/DC input power supply
- Din Rail mountable for quick installation
- Supports open protocols

## Ordering Information

Part Number	Description
JEC-334	JACE <sup>®</sup> -3E with 34 point I/O module. Features include Niagara station and Web User Interface. Includes Niagara Network (Fox) Client / Server. Includes oBIX Client / Server, Modbus, BACnet, and Lon drivers limited to a total of 5 devices per controller or 150 total points. Requires 24 VAC or 24 VDC Power Source. Option cards required for communication to remote devices are not included. Battery not included. Requires AX 3.8.037 or later.
<b>Optional Communication Cards</b>	
NPB-LON	78 Kbps FTT 10 A LON <sup>®</sup> adapter
NPB-232	Single Port RS 232 Option Card
NPB-2X-485	Dual Port RS-485 Option Card
NPB-GPRS-W	GPRS Modem option, bundled with Wyleless SIM card
<b>Optional I/O Expansion Modules</b>	
IO-16	Includes 8 Universal Inputs, 4 Form A Relay Outputs, and 4 0-10 VDC Analog Outputs. Mounts in-line with JEC-334 on DIN rail. JEC-334 supports up to 2 IO-16 modules.
IO-16-485	Includes 8 Universal Inputs, 4 Form A Relay Outputs, and 4 0-10 VDC Analog Outputs. May be mounted remotely. Communicates to JEC-334 via a dedicated RS-485 port. JEC-334 supports up to 4 IO-16-485 modules.
<b>Optional Power Accessories</b>	
NPB-BATT	Battery module. Provides up to 10 minutes of backup power.

## Specifications

### General

- J-300E and IO-34 Module with optimized license for equipment control
- Real-time clock – 2 week
- Niagara<sup>AX</sup> 3.8.037 or later
- Oracle Hotspot Java Virtual Machine

### IO-34 - 34 Point I/O Module

- 16 Universal Inputs (Type 3 (10k) Thermistors, 0-1000 ohm, 0-10 volts, 0-20 mA with external resistor)
- 10 relay outputs (Form A contacts, 24 VAC @.5 amp rated)
- 8 analog outputs (0-10 volt DC)

### Communications

- 2 Ethernet Ports – 10/100 Mbps (RJ-45 Connectors)
- 1 RS 232 Port (RJ-45 connector)
- 1 RS 485 non isolated port (Screw Connector on base board)
- 2 card slots for optional communication cards

### JACE and IO-34 Chassis

- Construction – Plastic, din rail or screw mount chassis, plastic cover
- Cooling – Internal air convection
- Dimensions (JACE) – 6.313" (16.04 cm) W x 4.820" (12.24 cm) H (including connectors) x 2.438" (6.19 cm) D
- Dimensions (IO-34) – 5.969" (15.16 cm) W x 4.820" (12.24 cm) H (including connectors) x 2.438" (6.19 cm) D
- Dimensions for both JACE and IO-34 including Mounting Ears 13.094" (33.26 cm) W x 4.820" (12.24 cm) H (including connectors) x 2.438" (6.19 cm) D

### Power Input

- 24 Volt AC or DC input power supply
- Termination is via screw type terminal block

### Environment

- Operating temperature range – 0° to 60°C (32°F to 140°F)
- Operating temperature range – 0° to 50°C (32°F to 122°F) with battery
- Storage temperature range – 0° to 60°C (32°F to 140°F)
- Relative humidity range – 5% to 95%, non-condensing

### Agency Listings

- RoHS Compliant
- UL 916
- C-UL listed to Canadian Standards Association (CSA) C22.2 No. 205-M1983 "Signal Equipment"
- CE
- FCC part 15 Class B
- C-tick (Australia)



Architecture

