

Vykon JACE® 2/JACE® 6 DATA SHEET

Product Overview

The JACE 2 and JACE 6 are compact, DIN-rail mounting platforms utilising the Niagara^{AX} Framework® for integration, control and web serving.

The JACE 2 and JACE 6 include Ethernet and serial comms ports as standard.

The communication capability can be extended by adding plug-in cards into the 2 expansion slots within the unit.

DIN Rail mounted I/O modules can be added to provide up to 66 directly connected points.

Connectivity

Basic unit has 2 Ethernet ports plus one RS 232 and one RS 485 port.

A dial-up or GPRS modem can be connected to a serial port, and a DSL modem/router can be connected to an Ethernet port, enabling IP communication for remote access and management.

Engineering

Integrated Graphical Engineering Tool is embedded in JACE 2 and JACE 6 so engineering can be carried out from a browser.

Optional Modules

2 slots are available for plug-in communications modules:

- LON FTT-10a port
- 2 x RS485 ports
- RS232 port

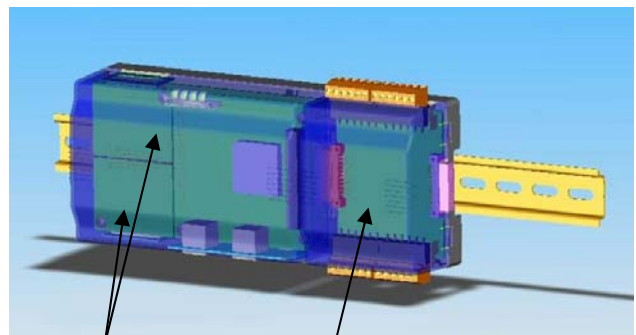
Plug-on DIN rail mounted modules:

- 16 point I/O – 8xUI, 4xAO, 4xDO
- 34 point I/O – 16xUI, 8xAO, 10xDO
- 24V PSU module



Features

- Runs the Niagara^{AX} Framework
- DIN rail mounting
- 2 x Ethernet + 1 x RS232 and 1 x RS485 ports
- Optional plug-in cards for comms
- Plug-in IO modules provide up to 66 points
- 24Vac or 230V PSU options
- Supports Open Communication networks LON, BACnet, EIB-IP, Modbus, M-bus, SNMP, Z-wave
- Full network management of LONworks devices
- Built-in Web Server provides Graphical User Interface via Browser
- Different versions match different types and sizes of application



Plug-in cards

16 point IO module

JACE® 200 series JACE® 600 series DATA SHEET

Specifications

Platform	JACE 2	JACE 6
IBM PowerPC processor 405EP	250 MHz	524Mhz
DRAM	128MB	256MB
Serial Flash	64MB	128MB
Battery back-up 5 minutes typical – shut down begins within 10 secs		
Data Base storage and Real-time clock – 3 month battery back-up		

Communications

- 2 Ethernet Ports - 10/100Mb (RJ45 connectors)
- 1 RS232 port (9 pin D-connector)
- 1 RS485 non-isolated port (3 way two part connector)

Optional Communications Cards (plug-in, internally mounted)

LON adaptor FTT-10A, RS485, RS232

Din Rail Mounted Input Output Modules

Connection to JACE-2 and JACE 6 is via a single multi-pin plug
Removable screw terminals for all inputs and outputs (in blocks of 6)

Universal Inputs (UI) for:

- Type 3 (10K) Thermistors, input accuracy +/-1% of span
Other types may be supported by entering custom non-linear curve interpolation points for each non-linear input
- 0-10Vdc acc. +/- 2% of span without user calibration
- 4-20mA acc. +/- 2% of span, without user calibration
Uses externally connected resistor for current input (provided)
Self-powered or board powered sensors accepted
- Dry contact V open circuit, 300-uA short-circuit current
Pulsing dry contact up to 20Hz; 50% duty cycle

Digital Outputs (DO):

Form A relay contacts max 30Vac or dc, 0.5A max current; suitable for on / off control only, floating control not supported

Analog Outputs (AO)

0-10Vdc 4mA drain max.

How to Order

J-660E	- JACE 6 with 96MB Java Heap Memory
J-650E	- JACE 6 limited to 48MB Java Heap Memory
J-250E	- JACE 2 with 48MB Java Heap Memory
J-240E	- JACE 2 limited to 16MB Java Heap Memory
J-230E	- JACE 2 limited to 16MB Java Heap Memory 450K resource limit 200 points max/network
J-220E	- JACE 2 limited to 16MB Java Heap Memory 350K resource limit 8 points max/network 34 points max NDIO Niagara + 1 other network
IO-16	- 16 point IO module
IO-34	- 34 point IO module with built-in 24Vac/dc PSU
WPM-EU	- 90-240Vac Plug Top PSU Europe 2 pin
WPM-UK	- 90-240Vac Plug Top PSU UK 3 pin
WPM-US	- 90-240Vac Plug Top PSU US 2 pin
NPB-PWR	- 24Vac DIN rail mounting PSU
NPB-LON	- plug-in LON FTT card
NPB-2X485	- plug-in RS485 card (2 ports)
NPB-232	- plug-in RS232 card

Chassis

Construction: plastic enclosure, internal air convection cooling
Intended for indoor wall or panel mounting only

Modules Available

JACE 2 and JACE 6

162 x 104 (122) x 62mm (with terminals)

Panel fixing lugs add 20mm to the main module width

IO16 module

8UI 4 DO 4 AO

max 4 per JACE or 2 in combination with IO 34

80 x 104(122) x 62mm (with terminals)

IO34 module

16UI 10DO 8AO

max 1 per JACE

includes integral 24vac/dc PSU

162 x 104(122) x 62mm (with terminals)

Power Supply

90 - 240Vac 50-60Hz universal plug-top PSU providing 15Vdc to JACE

Available with European, UK or US plug types

DIN rail mounting PSU module: 24Vac/dc 50-60Hz 25VA max.

This PSU is integral with the IO 34 module

One PSU required per JACE and IO module combination

Operating System

QNX operating system

IBM J9 Java Virtual Machine

Niagara^{AX} Framework

Environment

Operating temperature range: 0 to 50°C

Storage Temperature range: 0 to 70°C

Relative humidity: 5 to 95%, non-condensing

Agency Listings

CE, UL 916, C-UL listed to Canadian Standards Association (CSA)

C22.2 No. 205-M1983 "Signal Equipment"

FCC part 15 Class A, C-tick (Australia)



IO 16



IO 34



WPM-EU



NPB-PWR