

Vykon JACE 2/JACE 6

**Powerful and flexible platforms for NiagaraAX
DIN rail mounting with I/O expansion modules**

The JACE 2 and JACE 6 are compact, DIN-rail mounting platforms utilising the Niagara^{AX} Framework[®] for integration, control and web serving. Ethernet and serial comms ports are included as standard. Plug-in option cards enable additional comms ports and a GPRS modem option to be added into 2 expansion slots within the unit. Up to 66 points of directly wired input and outputs can also be added via DIN rail mounted I/O modules.



Connectivity

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

A GPRS modem card can be fitted internally.

A third party 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
- GPRS modem

Plug-on DIN rail mounted modules:

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

Key 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 & GPRS modem
- Plug-in IO modules provide up to 66 points
- 24Vac or 230V PSU options
- Supports Open Communication networks LON, BACnet, KNX-IP, Modbus, M-bus, SNMP, Z-wave and oBIX
- Full network management of LONworks devices
- Built-in Web Server provides Graphical User Interface via Browser
- Different licensed versions match different types and sizes of application

DIN rail mounted I/O modules plug-in to the JACE



Vykon JACE 2/6

Specifications

Platform

	JACE 2	JACE 6
IBM PowerPC processor	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, GPRS modem

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.

Operating System

QNX operating system
IBM J9 Java Virtual Machine
Niagara^{AX} Framework

Chassis

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

TRIDIUM

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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
- This PSU is integral with the IO 34 module
- One PSU required per JACE and IO module combination

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 Assoc (CSA)
- C22.2 No. 205-M1983 "Signal Equipment"
- FCC part 15 Class A, C-tick (Australia)

How to order

JCX660	JACE 6 with 96MB Java Heap Memory
JCX650	JACE 6 limited to 48MB Heap Memory
JCX250	JACE 2 with 48MB Java Heap Memory
JCX240	JACE 2 limited to 16MB Heap Memory
JCX230	JACE 2 limited to 16MB Heap Memory 450K resource limit 200 points max/network
JCX220	JACE 2 limited to 16MB Heap Memory 350K resource limit 8 points max/network 34 points max NDIO Niagara + 1 other network
ION16P	16 point IO module
ION34P	34 point IO module with built-in 24Vac/dc PSU
PMPEUP	90-240Vac Plug Top PSU Europe 2 pin
PMPUKP	90-240Vac Plug Top PSU UK 3 pin
PMD24V	24Vac DIN rail mounting PSU
JOCLOM	Plug-in LON FTT card
JOC485	Plug-in RS485 card (2 ports)
JOC232	Plug-in RS232 card
JOCGPR	Plug-in GPRS modem card
GPREXT	Extension cable and bracket for modem