

Product Overview

The JACE 2 is a compact, DIN-rail mounting platform utilising the Niagara^{AX} Framework[®] for integration, control and web serving.

The Jace 2 includes Ethernet and serial comms ports as standard.

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

DIN Rail mounted I/O modules can be added to provide up to 66 direct I/O points

Connectivity

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

Dial up or GPRS modem can be connected to serial port, 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 so engineering can be carried out from a browser

Optional Modules

Plug-in communications modules
2 slots available

- LON FTT-10a

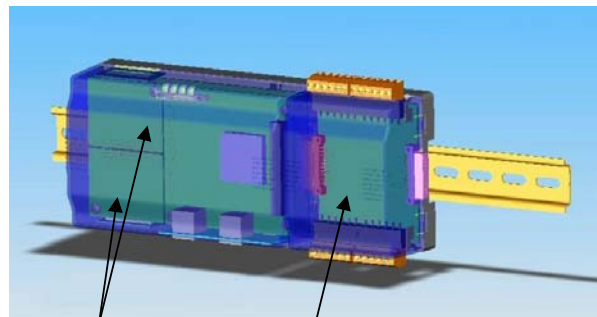
Plug-on DIN rail mounted modules

- 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
- Additional comms options using plug-in cards
- Plug-in IO modules provide up to 64 points
- 24Vac or 230V PSU options
- Supports Open Communication Buses LON, BACnet and Modbus
- Full network management of LONworks devices
- Built-in Web Server provides Graphical User Interface via Browser
- Jace 2 basic and lite versions have different capacity to match different application sizes



Plug-in cards

16 point IO module

JACE 200 series DATA SHEET

Specifications

Platform

IBM PowerPC 405EP 250 MHz processor
64MB DRAM & 64MB Serial Flash
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

Din Rail Mounted Input Output Modules

Connection to JACE-2 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.

Power Supply

90 - 240Vac50-60Hz 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 2 and IO module combination

Chassis

Construction: plastic enclosure
Intended for indoor wall or panel mounting only
Cooling: Internal air convection

Modules Available

JACE 2

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 2 or 2 in combination with IO 34

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

IO34 module

16UI 10DO 8AO

max 1 per Jace 2

includes integral 24vac/dc PSU

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

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)

How to Order

J-201E	- main module with Niagara AX software
J-201E-L	- main module with limited resource count
IO-16	- 16 point IO module
IO-34	- 34 point IO module with built-in 24Vac/dc PSU
NPB-PWR	- 24Vac DIN rail mounting PSU
WPM-EU	- Plug Top PSU Europe 2 pin
WPM-UK	- Plug Top PSU UK 13A 3 pin
WPM-US	- Plug Top PSU US 2 pin
NPB-LON	- plug-in LON FTT card



IO 16



IO 34



WPM-UK



NPB-PWR