

Overview

The EasyIO-J2 is a compact, embedded controller/server platform. It combines integrated control, supervision, data logging, alarming, scheduling and network management functions with Internet connectivity and web serving capabilities in a small, compact platform. The EasyIO-J2 makes it possible to control and manage external devices over the Internet and present real time information to users in web-based graphical views.



The EasyIO-J2 is a member of the EasyIO suite of Javabased controller/server products, software applications and tools, which are designed to integrate a variety of devices and protocols into unified, distributed systems. EasyIO products are powered by the revolutionary NiagaraAX Framework®, the industry's first software technology designed to integrate diverse systems and devices into a seamless system. Niagara supports a wide range of protocols including LonWorks™, BACnet™, MODbus, and Internet standards. The AX Framework also includes integrated network management tools to support the design, configuration, installation and maintenance of interoperable networks.

Applications

The EasyIO-J2 is ideal for smaller facilities, remote sites, and for distributing control and monitoring throughout large facilities. Optional input/output modules can be plugged in for applications where local control is required. The EasyIO-J2 also supports a wide range of field busses for connection to remote I/O and standalone controllers. In small facility applications, the EasyIO-J2 is all you need for a complete system.

The EasyIO-J2 serves data and rich graphical displays to a standard web browser via an Ethernet LAN or remotely over the Internet, or dial-up modem. In larger facilities, multi-building applications and large-scale control system integrations, EasyIO-AX Supervisor software can be used to aggregate information (realtime data, history, alarms, etc.) from large numbers of EasyIO into a single unified application. The EasyIO-AX Supervisor can manage global control functions, support data passing over multiple networks, connect to enterprise level software applications, and host multiple, simultaneous client workstations connected over the local network, the Internet, or dial-up modem.

Features

- Supports open and legacy protocols
- Web User interface (optional) serves rich presentations and live data to a browser
- Run stand-alone control, energy management, and multi-protocol integration
- Standard and optional communications boards
- Can be expanded with optional 16 and 34 point I/O Modules
- Small compact design is easy to install and supports multiple power options
- Works perfectly with EasyIO-30P controllers

Ordering Information

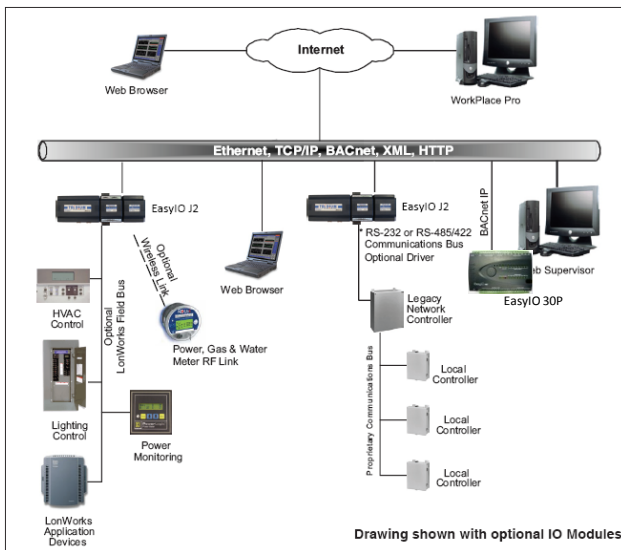
EasyIO-J2

Base Unit including two Ethernet ports, one RS-232 port, and one RS-485 port



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Drawing shown with optional IO Modules

Specifications

Platform

- PowerPC 405EP 250 MHz processor
- 64MB SDRAM & 64 MB Serial Flash
- Battery Backup - 5 minutes typical - shutdown begins within 10 seconds
- Real-time clock - 3 month backup max via battery

Communications

- 2 Ethernet Ports – 10/100 Mbps (RJ-45 Connectors)
- 1 RS 232 Port (9 pin D-shell connector)
- 1 RS 485 non isolated port (3 Screw Connector on base board)

Optional Communications Cards

- NPB-LON - Optional 78 Kbps FTT10 A Lon Adapter
- NPB-232 - Optional RS-232 port adapter with 9 pin D- shell connector
- NPB-2X-485 - Optional dual port RS-485 adapter; electrically isolated

Operating System

- QNX RTOS
- IBM J9 JVM Java Virtual Machine
- NiagaraAX

Power Supply

- NPB-PWR - Optional: 24 Volt AC/DC power supply module, Din Rail mounted

Optional Wall Power Modules –
(Note: All modules are universal input 90 – 240 volts, 50/60 Hz.; the model numbers below represent the various plug configurations only)

- WPM-US - 120 Vac, 50- 60 Hz. US
- WPM-EU - 230 Vac, 50-60 Hz. Europe/Asia
- WPM-UK - 230 Vac 50-60 Hz. UK

Chassis

- Construction: Plastic, din rail or screw mount chassis, plastic cover
- Cooling: Internal air convection
- Dimensions: 6.313" (16.04 cm) W x 4.820"(12.24 cm) H (including connectors) x 2.438" (6.19 cm) D

Environment

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

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, C-tick (Australia)

Optional I/O Modules

IO-34 - 34 Point I/O Module

Max of 1 per EasyIO-J2

- 16 Universal Inputs
- 10 relay outputs
- 8 analog outputs
- IO-34 module is approximately 6.313" (16.04 cm) W x 4.820"(12.24 cm) H (including connectors) x 2.438" (6.19 cm) D

IO-16 - 16 Point I/O Module

Up to 4 per EasyIO-J2 if combined with a 34 Point I/O module

- 8 Universal Inputs
- 4 relay outputs
- 4 analog outputs
- IO-16 module is approximately 3.2" (8.2 cm) W x 4.820" (12.24 cm) H x 2.4" (6 cm) D

I/O Specifications - All Modules

- Connection to EasyIO-J2 is via a single multi-pin plug
- Removable screw terminals (.2" centers) for all inputs and outputs
- *Universal Input types supported*
- Type 3 (10K) Thermistors; Thermistor Sensor Range –23.3°C to +115.5°C (–10° to +240° F). Input accuracy is in the range of +/-1% of span. Others may be supported by entering custom non-linear curve interpolation points for each unique non-linear input
- 0 to 10 volt; accuracy is +/- 2% of span, without user calibration; Uses an external resistor for current input (four provided, mounted by installer on terminal connections)
- 4/20 mA current loop; accuracy is +/- 2% of span, without user calibration; Self-powered or board-powered sensors accepted
- Dry contact; V open circuit, 300-uA short-circuit current
- Pulsing dry contact at a rate of up to 20 Hz; 50% duty cycle
- Digital Outputs (4 ea) Pilot Duty
- Form A relay contacts suitable for on/off control only; floating control not supported
- Max voltage - 30 volts DC or AC
- ½ Amp max current rating
- *Analog Outputs*
- 0 -10 Volt DC
- Minimum load supported per output is 2500 ohms minimum or 4 ma drain maximum

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