Overview

Figure 1: EasyIO-9000 Supervisory Controller

The EasyIO-9000 is a web-based supervisory controller with advanced features for enhanced performance. It provides integrated control supervision and network management services for local networks of equipment controllers. The EasyIO-9000 Supervisory Controller supports a full set of building automation features, such as scheduling, alarming, historical data collection and management, data sharing, 3D system graphics, energy management, totalization, customized control routines, tagging, templates, search, and hierarchies, which are specifically designed for commercial facilities.

Each EasyIO-9000 Supervisory Controller includes a graphical system user interface with an HTML5 web profile, a configuration tool that you can access with the web browser, and robust security. Remote access is easily achieved using a wired or wireless connection from the Internet or intranet. Multiple users can connect to the EasyIO-9000 Supervisory Controller concurrently. You can manage security and presentation preferences through user profiles, log on IDs, and passwords.

The EasyIO-9000 Supervisory Controller is a compact DIN rail mountable controller with the capability for remote external input and output points.

In addition, the EasyIO-9000 Supervisory Controller's hardware and software design is modular, so you can plug in accessories such as optional communication modules. The device and point licensing options allow you to select the device and point capacity most appropriate for the size of your facility and the options best needed to control it.

Features

Fully commissioned and licensed out of the box

Allows you to power up, connect to a web browser, change default passwords, set up network parameters, and start adding your field controllers.

Web-based user interface

Provides rich, graphical displays for system operation and analysis.

Adoption of industry standard communication protocols

Allows for the integration of a wide variety of field controllers, including Facility Explorer field controllers and controllers provided by others without intermediate gateways or translators.

Modular design

Allows you to select only those components needed to meet specific project requirements.

Small, compact design

The EasyIO-9000 Supervisory Controller is easy to install.

Niagara® analytics

Allows you to apply a variety of analytical algorithms and diagnostics to both historical and real-time data.

Ordering information

Table 1: EasyIO-9000 Supervisory Controller ordering information - available for APAC and MEA regions only

Part number	Description
EASYIO-9000-N	Base unit includes two isolated RS485 ports, two 10/100/1000MB Ethernet ports without Wi-Fi connectivity
NC-9XXX-DEMO	EasyIO 9000 Demo with 500 Device Core. Includes all available Tridium Drivers. Requires Niagara 4.13 or higher. License will renew annually with the receipt of the annual support fee.
NC-9005	Up to 5 devices or 250 point core
NC-9010	Up to 10 devices or 500 point core
NC-9025	Up to 25 devices or 1,250 point core
NC-9100	Up to 100 devices or 5,000 point core
NC-9200	Up to 200 devices or 10,000 point core
DEVICE-10	Up to 10 devices or 500 point upgrade (can be purchased during initial licensing)
DEVICE-25	Up to 25 devices or 1,250 point upgrade (can be purchased during initial licensing)
DEVICE-50	Up to 50 devices or 2,500 point upgrade (can be purchased during initial licensing)
NPB-8000-2X-485	EasyIO 8000 and 9000 controllers: add on dual port RS-485 module
NPB-8000-LON	EasyIO 8000 and 9000 controllers: add on single port RS-232 module
NPB-8000-232	EasyIO 8000 and 9000 controllers: add on single port RS-232 module
WPM-8000	Universal power supply for EasyIO 8000 and 9000 controllers

Technical specifications

Table 2: EasyIO-9000 Supervisory Controller technical specifications

Specification	Description
Enclosure	Plastic
Mounting	DIN rail
Dimensions (h x w d)	179 mm x 110 mm x 61 mm (7.05 in. x 4.33 in. x 2.40 in.)
Power supply	24 VAC rated at 24 VA minimum, or 24 VDC rated at 1 A (24 W) minimum
Processor	NXP iMX8M+ Quad Core CPU
RAM memory	2GB LPDDR4 RAM
Flash memory	8 GB onboard EMMC storage 8 GB micro-SD card: backup media

Table 2: EasyIO-9000 Supervisory Controller technical specifications

Specification	Description
Environment	Operating temperature: -20°C to 60°C (-4°F to 140°F) Storage temperature: -40°C to 85°C (-40°F to 185°F) Humidity: 5% to 95%, non-condensing
Onboard	Two Ethernet ports: 10/100/1000 MB Two isolated RS-485 ports with selectable bias and termination USB type C
Plug-in options	Two isolated RS-485 ports with selectable bias and termination
Network drivers	
Embedded	BACnet, Niagara 4.13 or higher
Direct I/O	
Onboard	None
Optional	Up to 256 I/O when you use 16 remote I/O modules. The I/O module part numbers are IO-R-16 and IO-R-34
Local (NDIO)	None
Remote I/O	Up to 256 I/O when you use 16 remote I/O modules. The I/O module part numbers are IO-R-16 and IO-R-34

Repair Information

If a controller or any related product fails to operate within its specifications, replace the product. For replacement products, contact the nearest Johnson Controls® representative.

Product warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

Software terms

Use of the software that is in (or constitutes) this product, or access to the cloud, or hosted services applicable to this product, if any, is subject to applicable end-user license, open-source software information, and other terms set forth at www.johnsoncontrols.com/techterms. Your use of this product constitutes an agreement to such terms.

Patents

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Contact information

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