



EasyIO

Neo Series

Building Automation System Product Catalog

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Efficient System:

- **Simplified Design and Installation:** Our system is designed to streamline the setup process, making it easier to test and commission (T&C). This efficiency reduces service and retrofit costs, ultimately improving overall system performance.

Adaptive Control:

- **Advanced Tuning with PRAC+:** Utilizing Pattern Recognition Adaptive Control (PRAC+), a patented adaptive tuning algorithm by Johnson Controls, our system integrates seamlessly with PID control. Leveraging PRAC+ not only shortens system commissioning times and reduces energy consumption but also extends the lifespan of your equipment and enhances comfort.

Secure Management:

- **Robust Security Infrastructure:** A secured connection between controllers and monitoring software is established using certificates, while independent access management ensures separate controls for edge controllers and system supervisors, providing a secure and reliable management framework.

Your-Choice Deployment:

- **Instant Online Updates:** Our solution offers the flexibility to make online modifications that take immediate effect without requiring any downloads. We support various network topologies including star, daisy chain, ring, Wi-Fi AP, Wi-Fi repeater, and Wi-Fi Client, ensuring your choice of deployment options that meet your specific needs.

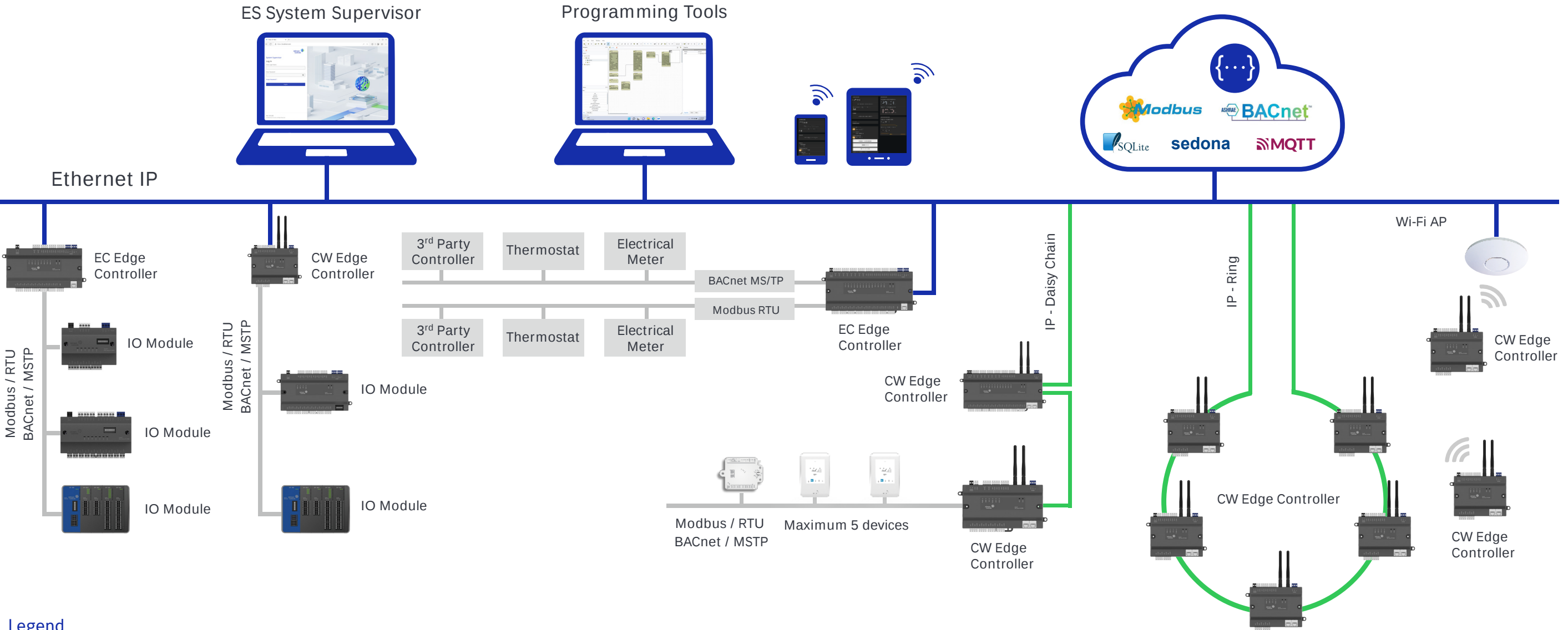
IoT Ready:

- **Cloud Connectivity with MQTT:** With MQTT support, our systems can connect seamlessly to cloud brokers provided by cloud service providers. We offer support for web servers, dashboards, and SQL databases at the edge, along with various widgets for energy monitoring, enabling users to effectively track and optimize energy usage.

Open Connectivity:

- **Compatibility and Integration:** Our systems natively support BACnet/MSTP, BACnet/IP, Modbus RTU, Modbus TCP, SOX, and RESTful API without any additional costs. This open connectivity ensures wide compatibility, facilitating seamless integration with existing technologies and infrastructures.

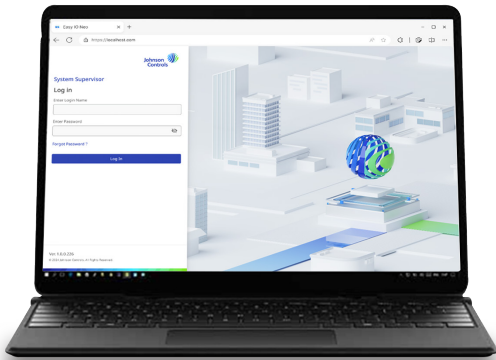
System Architecture



Legend

- IP
- RS485
- Daisy Chain

ES System Supervisor



The EasyIO Neo Series System Supervisor (ES) which manages the collection and presentation of large amounts of trend data, event messages, operator transactions, and system configuration data. The ES is a monitoring software that runs on personal computers or server operating systems to provide extended historical archiving and reporting capabilities. The ES is a single licensed software.

ES Monitoring Software features a modern interface design, combining clear navigation with streamlined workflows to significantly enhance user experience and system management efficiency.

Features:

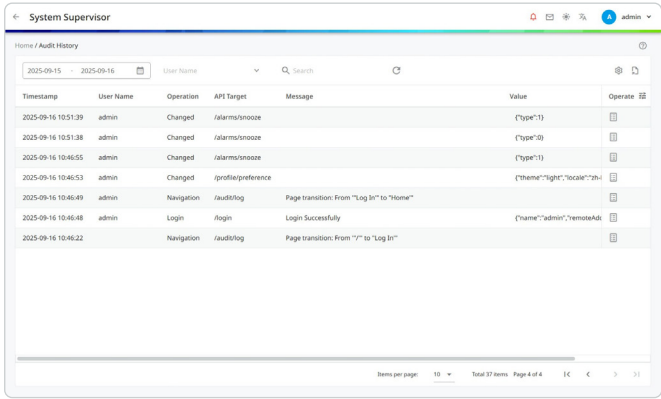
- **Encrypted Communication:** Communication between the ES and edge controllers uses a secure hash algorithm, to make the communication secure.
- **Audit Trail:** The system can record the operation of the operators; the client can track the system operation as per the audit trail records.
- **Customer Dashboard:** It enables ES users to create a dashboard that provides relevant and critical information to ES operators for enhanced productivity. Rich widgets for users to customer settings.
- **User Management:** It enables the facility management to operate safely, people who are not authorized cannot operate or even see the facility status.
- **Alarm Management:** The sorting functions of the alarm management can help operators identify the relevant information quickly.
- **Data Management:** The data backup, restore, import, and export functions can help the user easily manage the application and process database.
- **Customized Navigation:** The user can create their navigation, make the operator can focus on the information they care about.
- **Visualized Schedule Management:** Easy to create the schedule, you can input, or use drag and drop to create the schedule.

Ordering information

Order number	ES
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Audit Trail

The audit trail serves as a critical component for security, compliance, troubleshooting, and accountability. The audit trail is to provide a record that can be used to trace the actions of system users, including who made changes, when those changes were made, and what specific actions were taken.



Timestamp	User Name	Operation	API Target	Message	Value	Operate
2025-09-15 10:51:39	admin	Changed	/alarms/noise		("type":1)	
2025-09-15 10:51:38	admin	Changed	/alarms/noise		("type":0)	
2025-09-15 10:46:55	admin	Changed	/alarms/noise		("type":1)	
2025-09-15 10:46:53	admin	Changed	/profile/preference		("theme":"light","locale":"zh")	
2025-09-15 10:46:49	admin	Navigation	/auditlog	Page transition: From "Log In" to "Home"		
2025-09-15 10:46:48	admin	Login	/login	Login Successfully	("name":"admin","password")	
2025-09-15 10:46:22	admin	Navigation	/auditlog	Page transition: From "" to "Log In"		

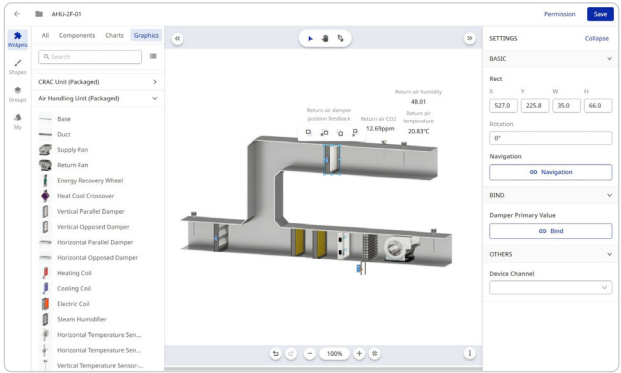
- **User Identification:** Each entry in the audit trail typically includes the user ID or name of the individual who initiated the action.
- **Timestamp:** Accurate dates and time stamps are recorded for every action to ensure that the order of events can be reliably traced.
- **Action Description:** A clear and concise description of the action taken, such as changing a setpoint or modifying a schedule.
- **Access Records:** Information on accessing the system.

Custom Page

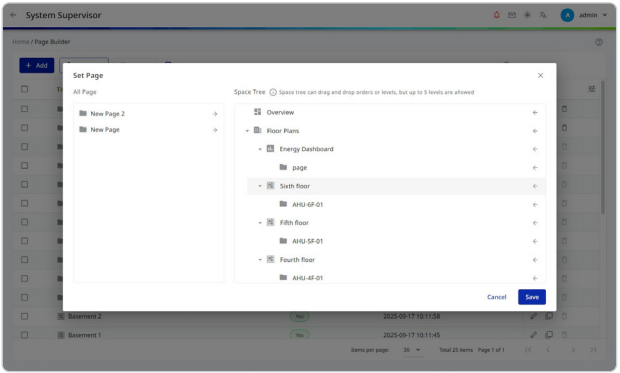
In the ES system, page customization allows operators to tailor pages and navigation based on specific project requirements, making it easier for operations personnel to view key pages displaying real-time data, alarms, and operating status of monitored equipment or processes.

ES includes classic and standard graphic libraries with a wide range of chart resources. It supports drag-and-drop selection of graphics and charts, as well as custom graphic uploads which is easy for users to build diverse monitoring pages tailored to various application needs.

Engineer View

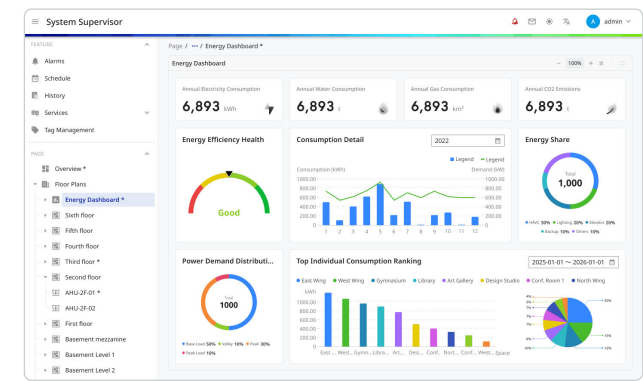


Page Customization



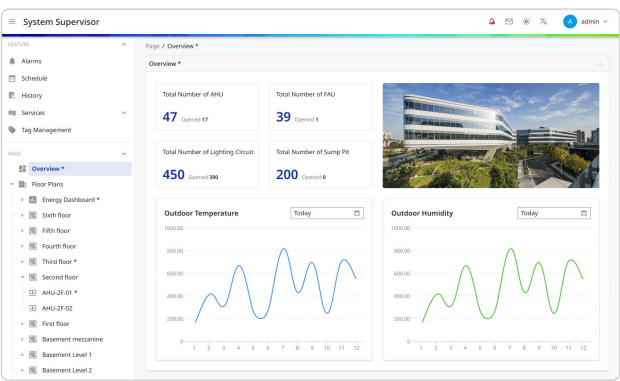
Navigation Configuration

Operator View



Energy Dashboard

- **Real-Time Data Visualization:** The dashboard provides visual representations of key performance indicators (KPIs) such as temperature, pressure, flow rate, power, energy consumption etc., which help operators quickly understand the current state of the process or system.
- **User Customization:** Dashboards offer customizable layouts and widgets, allowing operators to tailor the interface to their specific needs and preferences.

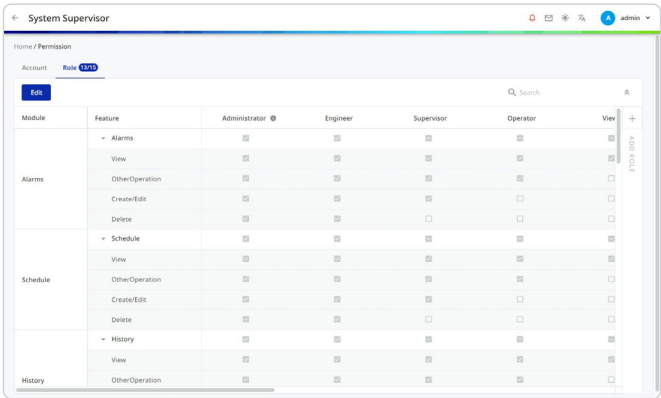


Project Overview

- **Customized Navigation:** Customized Navigation is a feature that allows users to personalize their browsing experience by creating a unique navigation system tailored to their specific needs and preferences. This feature enables users to select which categories or pages they want to include in their navigation menu, providing quick access to the content they are interested in. By doing so, it helps operators focus on the information that matters most to them and improves overall user engagement.

User Management

The software's user management is a crucial function that ensures only authorized personnel can access and operate the system. This helps maintain operational security, protect against unauthorized access, and enable compliance with regulatory standards. This page uses a tiled comparison layout to help users quickly edit role permissions, allowing the task to be completed in a single operation.



Module	Feature	Administrator	Engineer	Supervisor	Operator	View
Alarms	Alarms	☒	☒	☒	☒	☒
	View	☒	☒	☒	☒	☒
	Other Operation	☒	☒	☒	☒	☒
	Create/Edit	☒	☒	☒	☒	☒
Schedule	Schedule	☒	☒	☒	☒	☒
	View	☒	☒	☒	☒	☒
	Other Operation	☒	☒	☒	☒	☒
	Create/Edit	☒	☒	☒	☒	☒
History	History	☒	☒	☒	☒	☒
	View	☒	☒	☒	☒	☒

User Management Overview

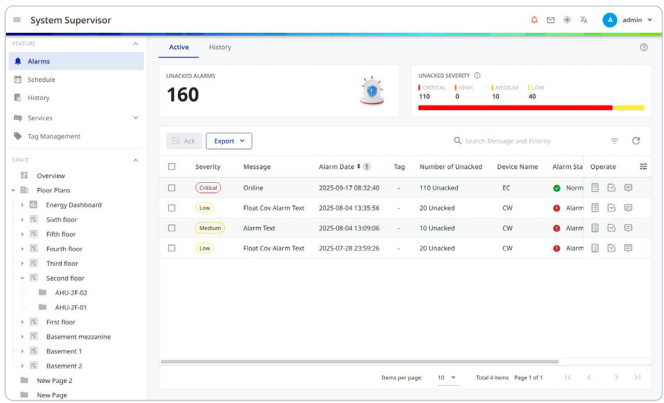
- **User Authentication:** All users must go through an authentication process to verify their identity before gaining access to the system. This usually involves providing a valid username and password combination.
- **Role-Based Access Control:** Users are assigned to specific

roles based on their job functions and responsibilities. Each role has predefined permissions that dictate the operations a user can perform within the system.

- **Access Control Lists:** The function specifies which users or roles have permissions to access specific functions, such as alarms, supervisor, pages, or other software functions within the ES.

Alarm Management

The alarm management function of ES software is a comprehensive tool that enables effective monitoring and rapid response to potential issues, contributing to the safe and reliable operation of building automation control systems.

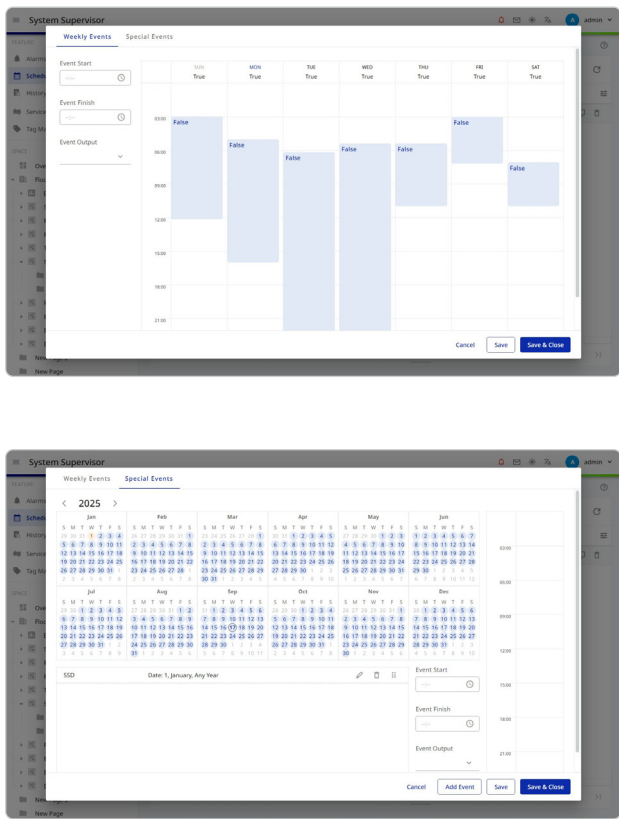


Alarm Management Feature Overview

- **Real-Time Monitoring:** The system continuously monitors process variables such as pressure, temperature, flow rate, and equipment status to detect any deviations from normal operating conditions.
- **Alarm Classification:** Alarms are categorized by severity, such as critical, high, medium, and low, to help operators prioritize their response.
- **Acknowledgment:** Once an alarm is generated, it requires acknowledgment by authorized personnel to indicate that the issue is being addressed. This helps in tracking the response to alarms.
- **Alarm Logging:** All alarms are logged with relevant information, including the time of occurrence, type of alarm, affected parameter, and the value at the time of the alarm.
- **Alarm Filtering:** Operators can filter alarms based on various criteria, such as alarm type, severity, or affected system, to focus on critical issues.
- **Security:** Access to alarm management functions is protected by user permissions to prevent unauthorized changes or manipulation of alarm settings.

Schedule Management

The scheduling function plays a crucial role in automation management. By precisely setting and controlling the timing and conditions of execution, this function not only enhances the efficiency and reliability of industrial processes but also provides robust data support for decision-making. With ongoing advancements in technology, the scheduling function will continue to evolve, List below are the features of schedule management.



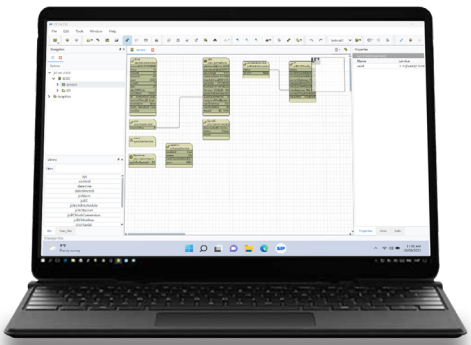
- Manual Input for Precision

For users who prefer precise control over their schedules, the manual input method allows them to specify the exact times and durations for tasks. This method is suited for tasks that require exact timing, such as those dependent on external factors like supplier deliveries or power usage restrictions.

- Drag-and-Drop Simplicity

The drag-and-drop feature offers a more flexible and less rigid approach to scheduling. Users can simply select a task and drag it to the desired position in the schedule. This intuitive operation is ideal for quickly adjusting schedules or for those new to ES system operations who might need a more accessible way to interact with the scheduling system.

Programming Tools



EP Tool

- Software for programming all controllers
- Live programming (online with direct access to the controller; offline is also possible)
- Object-oriented programming
- Program and data backup directly on the controller or the internal SD card
- Trend data capture in SQLite database
- Creation of control logic, graphics, trends, and schedules
- Adapter widget for developing user-defined graphic widgets (diagrams, buttons, import of 3rd party providers, etc.)
- Build custom libraries and kits in the EP developer environment

IO Manager Tool

Centralized Device Management

- Intuitive interface for configuring CM-485, SM-16UI, SM-16DI, SM-8AO, and SM-8DO modules.
- Supports both BACnet and Modbus communication protocols.

Efficient Project Handling

- Create, export, and import projects with password protection.
- Validate device configurations to ensure consistency between hardware and software.

Network & Firmware Operations

- Discover and manage up to 31 CM modules per network.
- Batch firmware upgrades with options to retain or reset user data.

User & Permission Controls

- Role-based access (Admin/Operator) with customizable permissions.
- Secure password policies (minimum 8 characters with alphanumeric requirements).

Real-Time Monitoring & Diagnostics

- Overview display for virtual DIN rail visualization.
- Monitor point status and troubleshoot configuration mismatches.

Neo Series EC Controller



The EasyIO Neo Series EC controllers are powerful network controllers with a 1.2 GHz Quad Core processor, 1GB RAM, 8 GB Flash Memory, HTML5 graphics, a suite of applications, kits, and multi-functional adapter widgets.

The EC controllers support current IT network and security standards. The integrated VPN permits secure remote activation and is at the same time a unique property of the controller.

Communication standard protocols such as BACnet, Modbus, MQTT, and SOX are supported. The EC series includes an SQL database and RESTful API for additional data integration and multi-system interoperability. The on-board Flash RAM provides a way of storing recorded data.

Ordering Information

Order number	I/O	UI	DO	UO
EC-1208	20	12	2	6
EC-1616	32	16	8	8

EasyIO Neo Series

EC-1208 Edge Controller



The EC-1208 is a high-performance network controller with a 1.2GHz quad-core processor, 1GB RAM and 8GB flash memory, an HTML5 graphical interface, and a full suite of applications and toolkits as well as versatile widgets components.

With the EP tool, the EC-1208 offers unmatched performance and real-time programming capabilities. The EC-1208 supports the latest IT networking and security standards. Its built-in VPN function supports secure remote connectivity, which is also one of the unique features of this controller.

BACnet, Modbus, MQTT and SOX are supported. EC controllers include SQL databases and RESTful API interfaces for additional data integration and multi-system interoperability. Flash memory (RAM) supports the acquisition and storage of data on the device.

The EC-1208 has 12 universal inputs (UI), 6 universal outputs (UO), and 2 digital outputs (DO). Use the expansion module to expand the input/output point capacity.

Features:

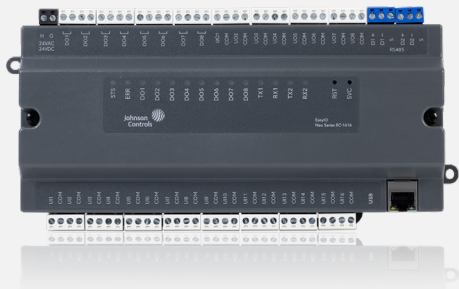
- 8GB of on-board EMMC memory for storage and retention of history.
- Support enterprise network security solutions based on 802.1x protocol and TLS1.2, TLS1.3, SSL, IPv6, DHCP clients
- Support BACnet MSTP client/server, BACnet IP client/server, Modbus RTU host/slave, Modbus TCP host/slave, MQTT, SOX protocols
- Support peer-to-peer (P2P) functions, compatible with EC and CW controllers
- Built-in HTML5 Web server and SSL certificate support
- Provide RESTful apis and Web services
- Built-in VPN server and client
- Support Network Time Protocol (NTP) client
- Support SMTP protocol with SSL authentication (send email)
- Provides SQL Lite database that can hold up to 100,000 records
- Built-in dashboard
- Built-in Johnson patent adaptive PID PRAC+, PVDC, Sequencer and other algorithms

Technical Specification

Product Name	EasyIO Neo Series EC-1208 Edge Controller
Description	20-POINT, IP CONTROLLER
Power Supply	24V AC +/- 5% or 24V DC +20% / - 15%
Consumption	18VA
Current Rating	500mA at 24VAC/VDC
Storage Temp	-20 to 85 °C
Operating Temp	0 to 65 °C
Operating Humidity	10% to 90% Relative Humidity non-condensing
Dimensions	198 x 104 x 44 (mm)
Material	Plastic conforms with UL
Weight	436g / 15.4 oz
Main Processor	1.2 Ghz Quad Core ARM A7
Processor	ARM Cortex 48 MHz
Flash Memory	8 GB
RAM	1GB
SD card Holder	Yes. For Application backup Storage
RS 485 Ports	2 x RS485
Ethernet	1 x Ethernet Port 10Mb/100Mb 10Base-T/ 100Base-T interface, half or full duplex
Protocols Supported	BACnet MSTP Client/Server, BACnet IP Client/Server, Modbus RTU M/S, Modbus TCP M/S, MQTT, SOX
Modbus Baud Rate	Speed: (9.6K, 19.2k, 38.4K, 57.6K), Data Bits: 8, Parity : Odd, Even, None
BACnet Baud Rate	Speed : 9.6K, 19.2k, 38.4K, 76.8K
Real Time Clock (RTC)	Real Time Clock with min 5 days backup by superCAP
Power Failure Protection	SuperCap Apps Safety Backup
Network Security Standard	IPv6, DHCP Client, SSL, TLS 1.3, 802.1x, VPN Client and Server
Database and API	MQTT, SQL database and REST API
Email Service	SMTP protocol (outgoing email) with SSL authentication
Time Sync Protocol	Network Time Sync Protocol
Universal Inputs	12 x UI
	Resistance Mode: 500 - 500K Ohms
	Voltage Mode: 0-10V
	Current mode: 0-20mA DC Impedance <25 Ohms
	Pulse count mode (max): 20 Pulse per sec at 50% duty cycle (20Hz)
Universal Output	Digital mode: Dry Contact
	6 x UO, 12-bit DAC
	Voltage mode: output range 0-10V DC, Min Load Impedance 2,000 Ohm. Maximum 5ma current draw.
	Current mode: 0-20mA, Max Load Impedance 800 Ohm.
Digital Output	Digital mode: maximum sinking current 200mA (for Switching Relays)
	2 x DO (with LED Indicator) Type: Relay Contacts, SPST NO, 48VA/2A at 24V
SKU	EC-1208
Certifications	CE, BTL, UL, FCC, RoHS
Engineer Tool	EP

EasyIO Neo Series

EC-1616 Edge Controller



The EC-1616 is a high-performance network controller with a 1.2GHz quad-core processor, 1GB RAM and 8GB flash memory, an HTML5 graphical interface, and a full suite of applications and toolkits as well as versatile widgets components.

With the EP tool, the EC-1616 offers unmatched performance and real-time programming capabilities. The EC-1616 supports the latest IT networking and security standards. Its built-in VPN function supports secure remote connectivity, which is also one of the unique features of this controller.

BACnet, Modbus, MQTT and SOX are supported. EC controllers include SQL databases and RESTful API interfaces for additional data integration and multi-system interoperability. Flash memory (RAM) supports the acquisition and storage of data on the device.

The EC-1616 has 16 universal inputs (UI), 8 universal outputs (UO), and 8 digital outputs (DO). Use the expansion module to expand the input point capacity.

Features:

- 8 GB of on-board EMMC memory for storage and retention of history
- Support enterprise network security solutions based on 802.1x protocol and TLS1.2, TLS1.3, SSL, IPv6, DHCP clients
- Support BACnet MSTP client/server, BACnet IP client/server, Modbus RTU host/slave, Modbus TCP host/slave, MQTT, SOX protocols
- Support peer-to-peer (P2P) function, compatible with EC and CW controllers
- Built-in HTML5 Web server and SSL certificate support
- Provide RESTful apis and Web services
- Built-in VPN server and client
- Support Network Time Protocol (NTP) client
- Support SMTP protocol with SSL authentication (send email)
- Provides SQL Lite database that can hold up to 100,000 records
- Built-in dashboard
- Built-in Johnson patent adaptive PID PRAC+, PVDC, Sequencer and other algorithms EC1616 Technical Specification

Technical Specification

Product Name	EasyIO Neo Series EC-1616 Edge Controller
Description	32-POINT, IP CONTROLLER
Power Supply	24V AC +/- 5% or 24V DC +20% / - 15%
Consumption	18VA
Current Rating	500mA at 24VAC/VDC
Storage Temp	-20 to 85 ℃
Operating Temp	0 to 65 ℃
Operating Humidity	10% to 90% Relative Humidity non-condensing
Dimensions	234 x 104 x 44 (mm)
Material	Plastic conforms with UL
Weight	800g / 28.2 oz
Main Processor	1.2 Ghz Quad Core ARM A7
Processor	ARM Cortex 48 MHz
Flash Memory	8 GB
RAM	1GB
SD card Holder	Yes. For Application backup Storage
RS 485 Ports	2 x RS485
Ethernet	1 x Ethernet Port 10Mb/100Mb
	10Base-T/ 100Base-T interface, half or full duplex
Protocols Supported	BACnet MSTP Client/Server, BACnet IP Client/Server, Modbus RTU M/S, Modbus TCP M/S, MQTT, SOX
Modbus Baud Rate	Speed: (9.6K, 19.2k, 38.4K, 57.6K), Data Bits: 8, Parity : Odd, Even, None
BACnet Baud Rate	Speed : 9.6K, 19.2k, 38.4K, 76.8K
Real Time Clock (RTC)	Real Time Clock with min 5 days backup by superCAP
Power Failure Protection	SuperCap Apps Safety Backup
Network Security Standard	IPv6, DHCP Client, SSL, TLS 1.3, 802.1x, VPN Client and Server
Database and API	MQTT, SQL database and REST API
Email Service	SMTP protocol (outgoing email) with SSL authentication
Time Sync Protocol	Network Time Sync Protocol
Universal Inputs	16 x UI
	Resistance Mode: 500 - 500K Ohms
	Voltage Mode : 0-10V
	Current mode: 0-20mA DC Impedance <25 Ohms
	Pulse count mode (max): 20 Pulse per sec at 50% duty cycle (20Hz)
	Digital mode: Dry Contact
Universal Output	8 x UO
	Voltage mode: output range 0-10V DC, Min Load Impedance 2,000 Ohm. Maximum 5ma current draw.
	Current mode: 0-20mA, Max Load Impedance 800 Ohm.
	Digital mode: maximum sinking current 200mA (for Switching Relays)
Digital Output	8 x DO (with LED Indicator)
	Type: Relay Contacts, SPST NO, 48VA/2A at 24V
SKU	EC-1616
Certifications	CE, BTL, UL, FCC, RoHS
Engineer Tool	EP

CW Controller



The CW (Wi-Fi) Controller Series is based on the very latest standards for IT networks and security and works with Wi-Fi b/g/n. These controllers can be used as part of an existing building automation system or as a standalone WLAN GA network. The integrated Ethernet switch can be used for Daisy Chain wiring within recommended IT guidelines. Standard protocols such as BACnet, Modbus, MQTT, and SOX are supported. The CW Series includes an SQL database and RESTful API for additional data integration and multi-system interoperability. HTML5 dashboard, a suite of applications, kits and multi- functional adapter widgets are also integrated.

Ordering Information

Order number	I/O	UI	DO	AO
CW-0404	8	4	-	4
CW-0806	14	8	2	4
CW-1612	28	16	8	4

EasyIO Neo Series

CW-0404 Edge Controller



The CW (Wi-Fi) controller supports IT networking and security standards and the Wi-Fi b/g/n protocol. This series of controllers can be used as part of an existing network or as a stand-alone BMS Wi-Fi network. With dual Ethernet ports, IT is possible to achieve Daisy chain functionality within the recommended IT standards.

The CW controller supports BACnet IP client/server, BACnet MSTP client, Modbus RTU slave, and SOX, P2P, and MQTT protocols.

The CW Controller also comes with an HTML5-enabled dashboard that can be programmed in real time via EP software.

The CW-0404 has four universal inputs (UI) and four analog outputs (AO). If you need relay output control, you can optionally add RM-0102 module. Use the extension module to extend the control points.

Features:

- Supports BACnet, Modbus and SOX protocols
- Support BACnet MS/TP client and BACnet IP client, up to 5 devices
- Support for BACnet IP servers based on Wi-Fi connection or Ethernet
- Support Modbus RTU master station, up to 5 devices
- Support peer-to-peer (P2P) functions, compatible with EC and CW controllers
- Built-in Web server, compatible with HTML5 and supporting SSL certificate
- Provide MQTT, RESTful apis and Web services
- Built-in DashBoard
- Support Wi-Fi access point, repeater or client mode
- Two Ethernet ports are used as common network switches, supporting Ethernet Daisy chain, star and ring connections
- Support Network Time Protocol (NTP) client
- Support SMTP protocol with SSL authentication (send email)
- Provides SQL Lite database that can hold up to 6000 records
- Built-in Johnson patent adaptive PID PRAC+, PVDC and other algorithms

Technical Specification

Product Name	EasyIO Neo Series CW-0404 Edge Controller
Description	8-POINT, WIFI CONTROLLER
Power Supply	24V AC +/- 5% or 24V DC +20% / - 15%
Consumption	18VA
Current Rating	500mA at 24VAC/VDC
Storage Temp	-20 to 85 °C
Operating Temp	0 to 65 °C
Operating Humidity	10% to 90% Relative Humidity non-condensing
Dimensions	136 x 104 x 44 (mm)
Material	Plastic conforms with UL
Weight	350g / 12.4 oz
Main Processor	Qualcomm 560MHz
Processor	ARM Cortex 48 MHz
Flash Memory	32MB, RAM 128MB
RAM	32 MB
SD card Holder	N/A
RS 485 Ports	1 x RS485
Ethernet	2 x Ethernet Port, non-bridged
	10Base-T/ 100Base-T interface, half or full duplex
	Spanning Tree Protocol
WLAN	WiFi 802.1x b/g/n
Protocols Supported	BACnet IP client/server, BACnet MSTP client/server, Modbus TCP/RTU M/S Web services, HTML5, SOX
Modbus Baud Rate	Speed: (9.6K, 19.2k, 38.4K, 57.6K) , Data Bits : 8 , Parity : Odd, Even, None
BACnet Baud Rate	Speed : 9.6K, 19.2k, 38.4K, 76.8K
Real Time Clock (RTC)	Real Time Clock with min 6 days backup by superCAP
Network Security Standard	IPv6, DHCP Client, SSL, TLS 1.3, 802.1x, WPA Enterprise
Database and API	MQTT, SQL database and REST API
Email Service	SMTP protocol (outgoing email) with SSL authentication
Time Sync Protocol	Network Time Sync Protocol
Universal Inputs	4 x UI
	Resistance Mode : 500 - 500K Ohms
	Voltage Mode : 0-10V
	Pulse count mode (max): 20 Pulse per sec at 50% duty cycle (20Hz)
Analog Output	Digital mode : Dry Contact
	4 x AO
	Voltage mode: output range 0-10V DC, Min Load Impedance 2,000 Ohm. Maximum 5ma current draw
SKU	CW-0404
Warranty	Yes, ask your local EasyIO representative
Certifications	CE, BTL, UL, FCC, RoHS, SRRC
Engineer Tool	EP

EasyIO Neo Series

CW-0806 Edge Controller



The CW (Wi-Fi) controller supports IT networking and security standards and the Wi-Fi b/g/n protocol. This series of controllers can be used as part of an existing network or as a stand-alone BMS Wi-Fi network. With dual Ethernet ports, IT is possible to achieve Daisy chain functionality within the recommended IT standards.

The CW controller supports BACnet IP client/server, BACnet MSTP client, Modbus RTU slave, and SOX, P2P, MQTT protocols. The CW controller also comes with an HTML5-enabled dashboard that can be programmed in real time via EP.

The CW-0806 has 8 universal inputs (UI), 4 analog outputs (AO) (voltage), and 2 digital outputs (DO). If you need relay output control, you can optionally add RM-0102 module. Use the extension module to extend control points.

Features:

- Support BACnet, Modbus and SOX protocols
- Support BACnet MSTP client and BACnet IP client, up to 5 devices
- Support for BACnet IP servers based on Wi-Fi connection or Ethernet
- Support Modbus RTU master station, up to 5 devices
- Support peer-to-peer (P2P) functions, compatible with EC and CW controllers
- Built-in Web server, compatible with HTML5 and supporting SSL certificate
- Provide MQTT, RESTful apis and Web services
- Built-in DashBoard
- Support Wi-Fi access point, repeater or client mode
- Two Ethernet ports are used as common network switches, supporting Ethernet Daisy chain, star and ring connections
- Support Network Time Protocol (NTP) client
- Support SMTP protocol with SSL authentication (send email)
- Provides SQL Lite database that can hold up to 6000 records
- Built-in Johnson patent adaptive PID PRAC+, PVDC and other algorithms

Technical Specification

Product Name	EasyIO Neo Series CW-0806 Edge Controller
Description	14-POINT, WIFI CONTROLLER
Power Supply	24V AC +/- 5% or 24V DC +20% / - 15%
Consumption	18VA
Current Rating	500mA at 24VAC/VDC
Storage Temp	-20 to 85 °C
Operating Temp	0 to 65 °C
Operating Humidity	10% to 90% Relative Humidity non-condensing
Dimensions	192 x 104 x 44 (mm)
Material	Plastic conforms with UL
Weight	410g / 14.4 oz
Main Processor	Qualcomm 560Mhz
Processor	ARM Cortex 48 MHz
Flash Memory	32 MB
RAM	128 MB
RS 485 Ports	1 x RS485
Ethernet	2 x Ethernet Port, non-bridged
	10Base-T/ 100Base-T interface, half or full duplex
	Spanning Tree Protocol
WLAN	WiFi 802.1x b/g/n
Protocols Supported	BACnet IP client/server, BACnet MSTP client/server, Modbus TCP/RTU M/S (Modbus Master disables BACnet Client), web services, HTML5, SOX
Modbus Baud Rate	Speed: (9.6K, 19.2k, 38.4K, 57.6K), Data Bits : 8 , Parity : Odd, Even, None
BACnet Baud Rate	Speed : 9.6K, 19.2k, 38.4K, 76.8K
Real Time Clock (RTC)	Real Time Clock with min 6 days backup by superCAP
Network Security Standard	IPv6, DHCP Client, SSL, TLS 1.3, 802.1x, WPA Enterprise
Database and API	MQTT, SQL database and REST API
Email Service	SMTP protocol (outgoing email) with SSL authentication
Time Sync Protocol	Network Time Sync Protocol
Universal Inputs	8 x UI
	Resistance Mode : 500 - 500K Ohms
	Voltage Mode : 0-10V
	Pulse count mode (max): 20 Pulse per sec at 50% duty cycle (20Hz)
Digital Output	2 x DO (with LED Indicator)
	Type: Relay Contacts, SPST NO, 48VA/2A at 24V
Analog Output	4 x AO
	Voltage mode: output range 0-10V DC, Min Load Impedance 2,000 Ohm.
	Maximum 5ma current draw
SKU	CW-0806
Certifications	CE, BTL, UL, FCC, RoHS, SRRC
Engineer Tool	EP

EasyIO Neo Series

CW-1612 Edge Controller



The CW (Wi-Fi) controller supports IT networking and security standards and the Wi-Fi b/g/n protocol. This series of controllers can be used as part of an existing network or as a stand-alone BMS Wi-Fi network. With dual Ethernet ports, IT is possible to achieve Daisy chain functionality within the recommended IT standards.

The CW controller supports BACnet IP client/server, BACnet MSTP client, Modbus RTU slave, and SOX, P2P, MQTT protocols. The CW controller also comes with an HTML5-enabled dashboard that can be programmed in real time via EP.

The CW-1612 has 16 universal inputs (UI), 4 analog outputs (AO) (voltage), and 8 digital outputs (DO). If you need relay output control, you can optionally add RM-0102 module. Use the extension module to extend control points.

Features:

- 8 GB of on-board EMMC memory for storage and retention of history
- Support enterprise network security solutions based on 802.1x protocol and TLS1.2, TLS1.3, SSL, IPv6, DHCP clients
- Support BACnet MSTP client/server, BACnet IP client/server, Modbus RTU host/slave, Modbus TCP host/slave, KNX IP, MQTT, SOX protocols
- Support peer-to-peer (P2P) function, compatible with EC and CW controllers
- Built-in HTML5 Web server and SSL certificate support
- Provide RESTful apis and Web services
- Built-in VPN server and client
- Support Network Time Protocol (NTP) client
- Support SMTP protocol with SSL authentication (send email)
- Provides SQL Lite database that can hold up to 100,000 records
- Built-in dashboard
- Built-in Johnson patent adaptive PID PRAC+, PVDC, Sequencer and other algorithms

Technical Specification

Product Name	EasyIO Neo Series CW-1612 Edge Controller
Description	28-POINT, WIFI CONTROLLER
Power Supply	24V AC +/- 5% or 24V DC +20% / - 15%
Consumption	18VA
Current Rating	500mA at 24VAC/VDC
Storage Temp	-20 to 85 °C
Operating Temp	0 to 65 °C
Operating Humidity	10% to 90% Relative Humidity non-condensing
Dimensions	234 x 104 x 44 (mm)
Material	Plastic conforms with UL
Weight	500g / 17.6 oz
Main Processor	Qualcomm 560Mhz
Processor	ARM Cortex 48 MHz
Flash Memory	32 MB
RAM	128 MB
RS 485 Ports	1 x RS485
Ethernet	2 x Ethernet Port, non-bridged
	10Base-T/ 100Base-T interface, half or full duplex
	Spanning Tree Protocol
WLAN	WiFi 802.1x b/g/n
Protocols Supported	BACnet IP client/server, BACnet MSTP client/server, Modbus TCP/RTU M/S
	(Modbus Master disables BACnet Client), web services, HTML5, SOX
Modbus Baud Rate	Speed: (9.6K, 19.2k, 38.4K, 57.6K), Data Bits: 8 , Parity : Odd, Even, None
BACnet Baud Rate	Speed : 9.6K, 19.2k, 38.4K, 76.8K
Real Time Clock (RTC)	Real Time Clock with min 6 days backup by superCAP
Network Security Standard	IPv6, DHCP Client, SSL, TLS 1.3, 802.1x, WPA Enterprise
Database and API	MQTT, SQL database and REST API
Email Service	SMTP protocol (outgoing email) with SSL authentication
Time Sync Protocol	Network Time Sync Protocol
Universal Inputs	16 x UI
	4 Modes
	Resistance Mode : 500 - 500K Ohms
	Voltage Mode : 0-10V
Digital Output	Pulse count mode (max): 20 Pulse per sec at 50% duty cycle (20Hz)
	8 x DO (with LED Indicator), Type: Relay Contacts, SPST NO, 48VA at 24V
	Digital mode: Dry Contact
Analog Output	4 x AO
	Voltage mode: output range 0-10V DC, Min Load Impedance 2,000 Ohm
	Maximum 5ma current draw
SKU	CW-1612
Certifications	CE, BTL, UL, FCC, RoHS, SRRC
Engineer Tool	EP

IO Module



Features:

Modular Design Advantages

- Flexible Configuration: Modular architecture precisely matches I/O types and application needs, avoiding overspending on unused channels
- Scalable Architecture: Supports incremental expansion up to 10 signal modules (80 I/O points), accommodating future system growth

Operational Excellence

- Module Replacement: Vertical plug-in modules significantly improve maintenance efficiency
- Real-Time Diagnostics: LED status indicators enable instant fault identification, accelerating maintenance response

Seamless Integration

- Open Protocol Compatibility: Standardized interfaces (BACnet/MSTP, Modbus/RTU) ensure interoperability with third-party BMS/automation systems
- Centralized Configuration: IO Manager software simplifies parameter setup, reducing commissioning time and improving efficiency

Installation & Performance

- Spring Terminals: Tool-free wiring saves time compared to screw terminals
- Universal Signal Compatibility: Supports most building automation signal standards for seamless integration with HVAC and lighting systems

Superior Measurement

- Industry-Leading Accuracy: Delivers better control performance and reliable data for critical building automation
- High Resolution: 16-bit ADC captures subtle signal variations for precise HVAC control
- Environmental Stability: Advanced temperature compensation maintains nominal accuracy from 0°C to 50°C

Space-Optimized Design

- Compact Structure: Ultra-thin modules maximize control cabinet space utilization, ideal for high-density installation scenarios

Ordering Information

Ordering Code	I/O	UI	DI	DO	AI	AO
CM-485	-	-	-	-	-	-
SM-16UI	-	16	-	-	-	-
SM-16DI	-	-	16	-	-	-
SM-8AO	-	-	-	-	-	8
SM-8DO	-	-	-	8	-	-
IO-1006	16	5	5	3	-	3
IO-0602	8	6	-	2	-	-
IO-2000	20	-	10	-	10	-
RM-0102	2	-	-	2	-	-



Product Type	CM-485	SM-8AO	SM-8DO	SM-16UI	SM-16DI
Power	<2VA	<10VA	<8VA	<1VA	<2VA

EasyIO Neo Series

CM-485 Communication Module



The CM-485 is a communication module designed to enable inter-module communication, facilitating centralized control and data acquisition.

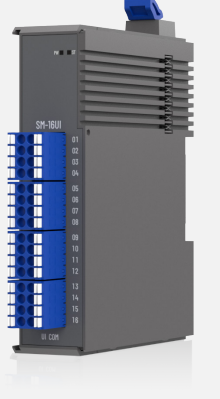
- Protocol Support: Compatible with BACnet MS/TP and Modbus/RTU protocols for data exchange in building automation and industrial control systems
- Expansion Capability: Allows the controller to connect with multiple field devices by adding IO modules, expanding the number of input/output points in the system
- Data Transmission: Utilizes RS-485 serial communication for stable and efficient data transfer, suitable for long-distance and multi-device communication scenarios
- Modular Design: As a pluggable module, CM-485 offers flexible configuration and seamless integration with controllers, enhancing system adaptability and scalability
- Simplified Configuration: Works with software tools (e.g. IO Manager) for easily module setup and device management.

Technical Specification

Product Name	CM-485
Description	RS485 COMMUNICATION MODULE
Power Supply	24V AC +20% / -15%, 50/60Hz 24V DC +20% / -15%
Consumption	< 2VA
Current Rating	< 200mA (For itself) < 5A (Max Power For IO Moudles Assembly)
Storage Temp	-40 to 70 °C
Storage Humidity	5% to 95% Relative Humidity non-condensing
Operating Temp	0 to 50 °C
Operating Humidity	10% to 90% Relative Humidity non-condensing
Dimensions	40.8 x 104 x 79 (mm)
Weight	CM 138g, Cover 29g
Main Processor	250 Mhz ARM Cortex-M33
RS 485 Ports	1×RS485 Isolated
Protocols Supported	BACnet, Modbus RTU
Modbus Baud Rate	9600, 19200, 38400, 57600, 115200
BACnet Baud Rate	9600, 19200, 38400, 76800, 115200
Real Time Clock (RTC)	YES
CASE	Plastic shell, Snap connection,Color Film,LED power/working state display
Certifications	CE, RoHS, UL, GB
IP Class	IP20

EasyIO Neo Series

SM-16UI Input Signal Module



The SM-16UI module offers powerful versatility and supports a wide range of input signal types.

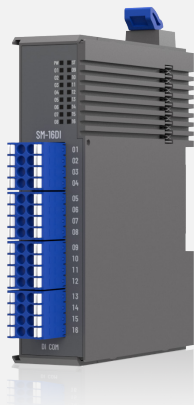
- Supported Input Types:
 - Resistance: 0–600KΩ, suitable for connecting resistive sensors
 - Voltage: 0–10V, 2–10V, commonly used for analog signal inputs
- Temperature Sensor Support:
 - NTC 10K Type2 / NTC 10K Type2 Shunt 11K
 - NTC 10K Type3 / NTC 10K Type3 Shunt 11K
 - NTC 3K / NTC 20K
 - Pt1000 / Ni1000
- Pulse Input: Supports pulse counting with a maximum frequency of 25Hz, ideal for counters or flow sensors
- Dry Contact Input: Supports normally open (NO) and normally closed (NC) contacts for reading switch states

Technical Specification

Product Name	SM-16UI
Description	16-POINT UNIVERSAL INPUT SIGNAL MODULE
Consumption	< 1VA
Storage Temp	-40 to 70 °C
Storage Humidity	5% to 95% Relative Humidity non-condensing
Operating Temp	0 to 50 °C
Operating Humidity	10% to 90% Relative Humidity non-condensing
Dimensions	23.8×104×79 (mm)
Weight	110g
Main Processor	64 MHz ARM Cortex-M0+
CASE	Plastic shell, Snap connection,Color Film,LED power/working state display
Universal Input	16×UI
	Resistance: 300–600K 0.2%
	Voltage: 0–10V 0.5% 2–10V 0.5%
	Current: 0–20mA 0.5% 4–20mA 0.5%
Digital:	NO/NC Dry Contact
	Pulse count: Max 25 pulse per second (25Hz)
Certifications	CE, RoHS, UL, GB
IP Class	IP20

EasyIO Neo Series

SM-16DI Input Signal Module



The SM-16DI provides 16 digital input channels, each equipped with independent indicators and configurable logic. It supports pulse counting and dry contact signal input, making it a highly efficient and flexible digital input expansion module.

- **Dedicated Green LED Indicators:** Each channel features an independent green LED to display its status. The LED on/off logic can be configured via software to suit different application needs
- **Pulse Counting Support:** Maximum pulse frequency of 25Hz (25 pulses per second), suitable for connecting flow meters, counters, or other devices requiring pulse signal acquisition
- **Dry Contact Input Support:** Supports normally open (NO) and normally closed (NC) contacts with no-voltage signal input, ideal for monitoring switches, buttons, or relay states

Technical Specification

Product Name	SM-16DI
Description	16-POINT DIGITAL INPUT SIGNAL MODULE
Consumptio	< 2VA
Storage Temp	-40 to 70 °C
Storage Humidity	5% to 95% Relative Humidity non-condensing
Operating Temp	0 to 50 °C
Operating Humidity	10% to 90% Relative Humidity non-condensing
Dimensions	23.8×104×79 (mm)
Weight	108g
Main Processor	64 MHz ARM Cortex-M0+
CASE	Plastic shell, Snap connection,Color Film,LED power/working state display,Channel state display
Digital Input	16×DI Digital: NO/NC Dry Contact Pulse count: Max 25 pulse per second (25Hz)
Certifications	CE, RoHS, UL, GB
IP Class	IP20

EasyIO Neo Series

SM-8AO Output Signal Module



The SM-8AO is an 8-channel analog output signal module that supports both voltage and current output modes. It is ideal for applications requiring high-precision analog signal output and is widely used in HVAC control, lighting control, and energy management systems.

- **Compact Design:** Module dimensions are just 23.8 × 104 × 79 mm, with a weight of 104g. Its compact design makes it suitable for various installation environments
- **Durable Housing:** Constructed with a plastic enclosure and snap-in mounting design. The module features a color film and LED indicators for power and operating status, enabling real-time monitoring for users

Technical Specification

Product Name	SM-8AO
Description	8-POINT ANALOG OUTPUT SIGNAL MODULE
Consumption	< 10VA
Storage Temp	-40 to 70 °C
Storage Humidity	5% to 95% Relative Humidity non-condensing
Operating Temp	0 to 50 °C
Operating Humidity	10% to 90% Relative Humidity non-condensing
Dimensions	23.8 x 104 x 79 (mm)
Weight	104g
Main Processor	64 MHz ARM Cortex-M0+
CASE	Plastic shell, Snap connection, Color Film, LED power/working state display
Analog Output	8 x AO Voltage: 0~10V 2~10V Current: 0~20mA 4~20mA
Certifications	CE, RoHS, UL, GB
IP Class	IP20

EasyIO Neo Series

SM-8DO Output Signal Module



The SM-8DO is an 8-channel digital output signal module designed to control the switching status of various devices such as lighting, fans, and valves. It supports efficient transmission of switching signals.

Compact Design: Small module dimensions make it easy to install in space-constrained control cabinets or distribution boxes.

Low Power Consumption: Power consumption is less than 10VA, offering excellent energy efficiency and suitability for long-term stable operation.

- Each channel is equipped with a dedicated green LED indicator
- LED on/off logic can be configured via software
- Normally Open Contacts: 24VAC/DC, 1A
- Normally Closed Contacts: 24VAC/DC, 1A

Technical Specification

Product Name	SM-8DO
Description	8-POINT DIGITAL OUTPUT SIGNAL MODULE
Consumption	< 8VA
Storage Temp	-40 to 70 °C
Storage Humidity	5% to 95% Relative Humidity non-condensing
Operating Temp	0 to 50 °C
Operating Humidity	10% to 90% Relative Humidity non-condensing
Dimensions	23.8×104×79 (mm)
Weight	110g
Main Processor	64 MHz ARM Cortex-M0+
CASE	Plastic shell, Snap connection,Color Film,LED power/working state display,Channel state display
Digital Output	8 x DO
	24VAC/DC 1A
Certifications	CE, RoHS, UL, GB
IP Class	IP20

EasyIO Neo Series

IO-1006 I/O Module



The IO-1006 helps increase input points for EC and CW edge controllers. The IO-1006 has 10 input points and 6 output points, provides BACnet MS/TP and Modbus RTU communication modes, and is equipped with an RS485 port. The inputs include 5 universal inputs (UI), 5 digital inputs (DI),3 digital outputs (DO), and 3 analog outputs (AO).

Technical Specification

Product Name	EasyIO Neo Series IO-1006 I/O Module
Description	16-POINT IO EXPANSION MODULE
Power Supply	24V AC +/- 20% or 24V DC +20% / - 15% , 50/60Hz
Consumption	< 11VA
Current Rating	< 500mA at 24VAC/VDC
Storage Temp	-20 to 85 °C
Operating Temp	0 to 65 °C
Operating Humidity	10% to 90% Relative Humidity non-condensing
Dimensions	131.4 x 68 x 76.6 (mm)
Material	Plastic conforms with UL
Weight	314g
Main Processor	48 MHz ARM Cortex-M0
Flash Memory	256KB
RAM	144KB
RS 485 Ports	1 x RS485
Protocols Supported	BACnet MS/TP Modbus RTU
Modbus Baud Rate	Speed: (9.6K, default19.2k, 38.4K, 57.6K), Data Bits: 8 , Parity : Odd, default Even, None
BACnet Baud Rate	Speed : 9.6K, 19.2k, 38.4K, 57.6K
Universal Inputs	5 x UI,12-bit ADC with PGA
	Resistance 400 - 300K Ohms(+/- 10 Ohms).
	Voltage 0-10V DC (+/- 0.05V)
	Thermistor sensor supported : NTC 10k Type 2/3 and NTC 20k. Digital mode: Dry Contact
Digital Input	5 x DI, Dry Contact
Digital Output	3 x DO
Analog Output	24VAC/DC 2A
	3 x AO
	Voltage 0-10V DC
SKU	IO-1006
Certifications	CE, UL, FCC, RoHS
Engineer Tool	EP

EasyIO Neo Series

IO-0602 I/O Module



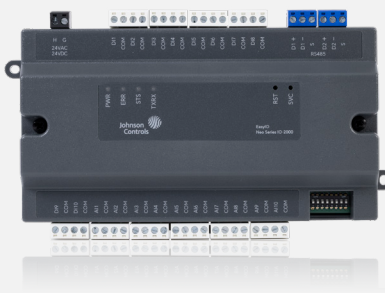
The IO-0602 helps increase input points for EC and CW series controllers. The IO-0602 has 6 input points and 2 output points, provides BACnet MS/TP and Modbus RTU communication modes, and is equipped with an RS485 port. The input consists of six generic inputs (UI) and two numeric outputs (DO).

Technical Specification

Product Name	EasyIO Neo Series IO-0602 I/O Module
Description	8-POINT IO EXPANSION MODULE
Power Supply	24V AC +/- 20% or 24V DC +20% / - 15% , 50/60Hz
Consumption	< 11VA
Current Rating	< 500mA at 24VAC/VDC
Storage Temp	-20 to 85 °C
Operating Temp	0 to 65 °C
Operating Humidity	10% to 90% Relative Humidity non-condensing
Dimensions	101 x 68 x 76.6 (mm)
Material	Plastic conforms with UL
Weight	245g
Main Processor	48 MHz ARM Cortex-M0
Processor	N/A
Flash Memory	256KB
RAM	144KB
RS 485 Ports	1 x RS485
Protocols Supported	BACnet MS/TP Modbus RTU
Modbus Baud Rate	Speed: (9.6K, default19.2k, 38.4K, 57.6K), Data Bits: 8 , Parity : Odd, default Even, None
BACnet Baud Rate	Speed : 9.6K, 19.2k, 38.4K, 57.6K
Universal Inputs	6 x UI Resistance 400 - 300K Ohms Voltage 0-10V DC Thermistor sensor supported : NTC 10k Type 2/3 and NTC 20k Digital mode: Dry Contact
Digital Output	2 x DO 24VAC/DC 2A
SKU	IO-0602
Certifications	CE, UL, FCC, RoHS
Engineer Tool	EP

EasyIO Neo Series

IO-2000 I/O Module



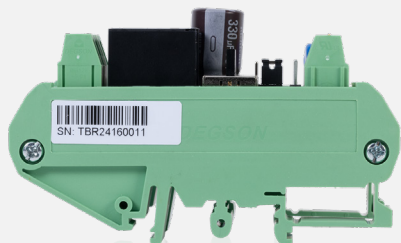
The IO-2000 helps increase input points for EC and CW series controllers. The IO-2000 has 20 input points, offers BACnet MSTP and Modbus RTU, and is equipped with an RS485 port. The inputs include 10 digital inputs (DI) and 10 analog inputs (AI) to support resistance-based temperature sensors (10K or 20K).

Technical Specification

Product Name	EasyIO Neo Series IO-2000 I/O Module
Description	20-POINT IO EXPANSION MODULE
Power Supply	24V AC +/- 5% or 24V DC +20% / - 15%
Consumption	< 11VA
Current Rating	< 500mA at 24VAC/VDC
Storage Temp	-20 to 85 °C
Operating Temp	0 to 65 °C
Operating Humidity	10% to 90% Relative Humidity non-condensing
Dimensions	192 x 104 x 44 (mm)
Material	Plastic conforms with UL
Weight	410g / 14.4 oz
Main Processor	48 MHz ARM Cortex-M0
Flash Memory	256KB
RAM	144KB
RS 485 Ports	1 x RS485
Protocols Supported	BACnet MS/TP Modbus RTU
Modbus Baud Rate	Speed : (9.6K, default19.2k, 38.4K, 57.6K), Data Bits : 8 , Parity : Odd, Even, None
BACnet Baud Rate	Speed : 9.6K, 19.2k, 38.4K, 76.8K
Analog Inputs	10 x AI. Resistance Mode: 400 - 300K Ohms. Thermistor sensor supported : NTC 10k Type 2/3 and NTC 20k. Digital mode: Dry Contact
Digital Iutput	10 x DI, Dry Contact
SKU	IO-2000
Certifications	CE, BTL, UL, FCC, RoHS
Engineer Tool	EP

EasyIO Neo Series

RM-0102 Relay Module



The analog signal is converted into two relay output modules.

Technical Specification

Product Name	EasyIO Neo Series RM-0102 Relay Module
Description	2 POINT RELAY OUTPUT MODULE
Power Supply	24V AC +/- 5% or 24V DC +20% / - 15%
Consumption	< 11VA
Current Rating	< 500mA at 24VAC/VDC
Storage Temp	-20 to 85 °C
Operating Temp	0 to 65 °C
Operating Humidity	10% to 90% Relative Humidity non-condensing
Dimensions	44 x 90 x 54 (mm)
Material	Plastic conforms with UL
Weight	100g / 3.6 oz
Main Processor	48 MHz ARM Cortex-M0
Flash Memory	64KB
RAM	8KB
Analog Inputs	1AI, Voltage Mode, 0~10V
Digital Output	2 x DO (with LED Indicator) Type: Relay Contacts, SPST NO, 48VA/2A at 24V
SKU	RM-0102



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