



## Innovation and Simplicity in Building Automation

iSMA CONTROLLI is an innovative leader in building automation with a family of products that can be used across buildings of all types and sizes. In addition to our active presence in the Niagara Framework community, we emphasize open communication and network standards, allowing our products to complement control systems of all types and suppliers.



[ismacontrolli.us](http://ismacontrolli.us)

powered by  
**niagara**  
framework®

iSMA CONTROLLI is a company operating in the field of building automation.

Our purpose is to make buildings better place to live and work through innovative solutions for wellbeing, security, sustainability, and efficiency.

We offer the perfect solution for projects of all sizes that can be implemented in both new and existing buildings, increasing comfort and energy savings.

### Quality and Reliability. Confirmed by Certificates

#### BTL Listing

iSMA CONTROLLI is a long-standing member of the BACnet community. The experience in developing high quality products and the BTL (BACnet Test Laboratory) certification confirms the excellent performance of communication using the BACnet protocol.



#### UL Certification

Reliability of operation is confirmed by the UL testing, certified by Underwriters Laboratories.



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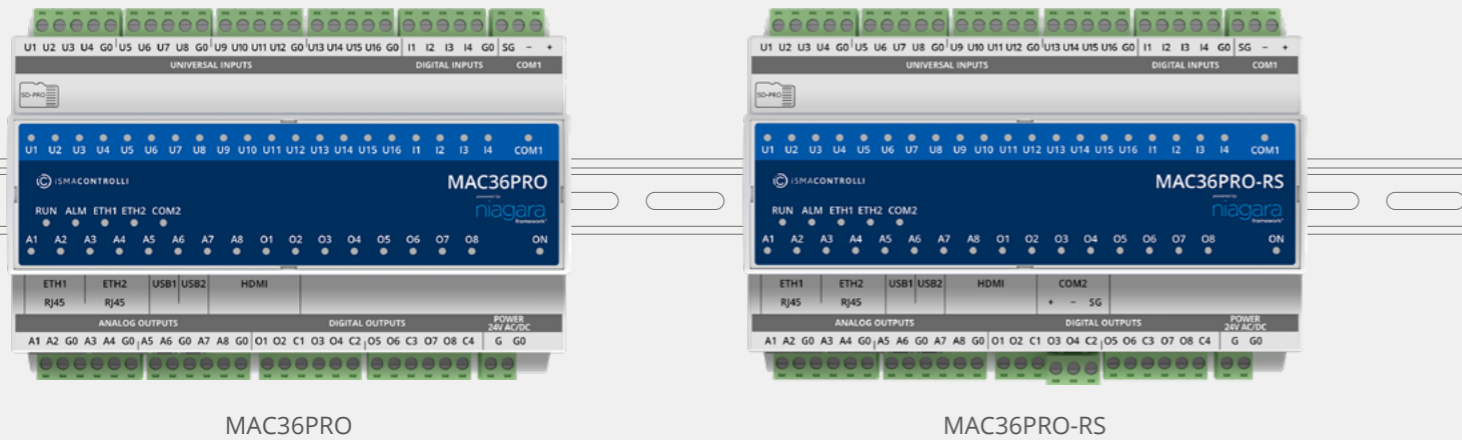
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**A single controller to operate the building**

Meet the next evolution in building management MAC36PRO, the latest generation of Master Application Controllers powered by Niagara. Its compact size, versatile peripherals, and robust local visualization make it the go-to stand-alone controller for effective building management.

**Get ready for a performance boost**

Achieve maximum efficiency and comfort of the building while reducing the energy cost to minimum thanks to connecting HVAC, metering, lighting, comfort and energy management into one common platform.

**Visualization Efficiency**

Unlock an enhanced operating experience with our latest controller features, allowing seamless HDMI-operated local visualization.

**Expandable and Scalable**

36 onboard inputs and outputs can be easily expanded with Multiprotocol I/O Modules by IP or RS485 interface, enabling expanding the controller capabilities at the same time of installation or in the future.

**Building Management on your terms**

MAC36 Controllers provides complete control, data logging, alarming, scheduling, integration, and visualization in one comprehensive package. Whether remotely accessing your building through a secured connection or controlling it locally via HDMI-connected screen, our solution offers the flexibility and convenience for managing your building on your terms.



**Key Functionalities and Features**

**Quad-Core 1.6 GHz processor**

Experience a remarkable boost in efficiency, ensuring your device runs smoother than ever before.

**Doubled amount of RAM**

Increased RAM memory ensures smooth operation and faster processing.

**Doubled Storage**

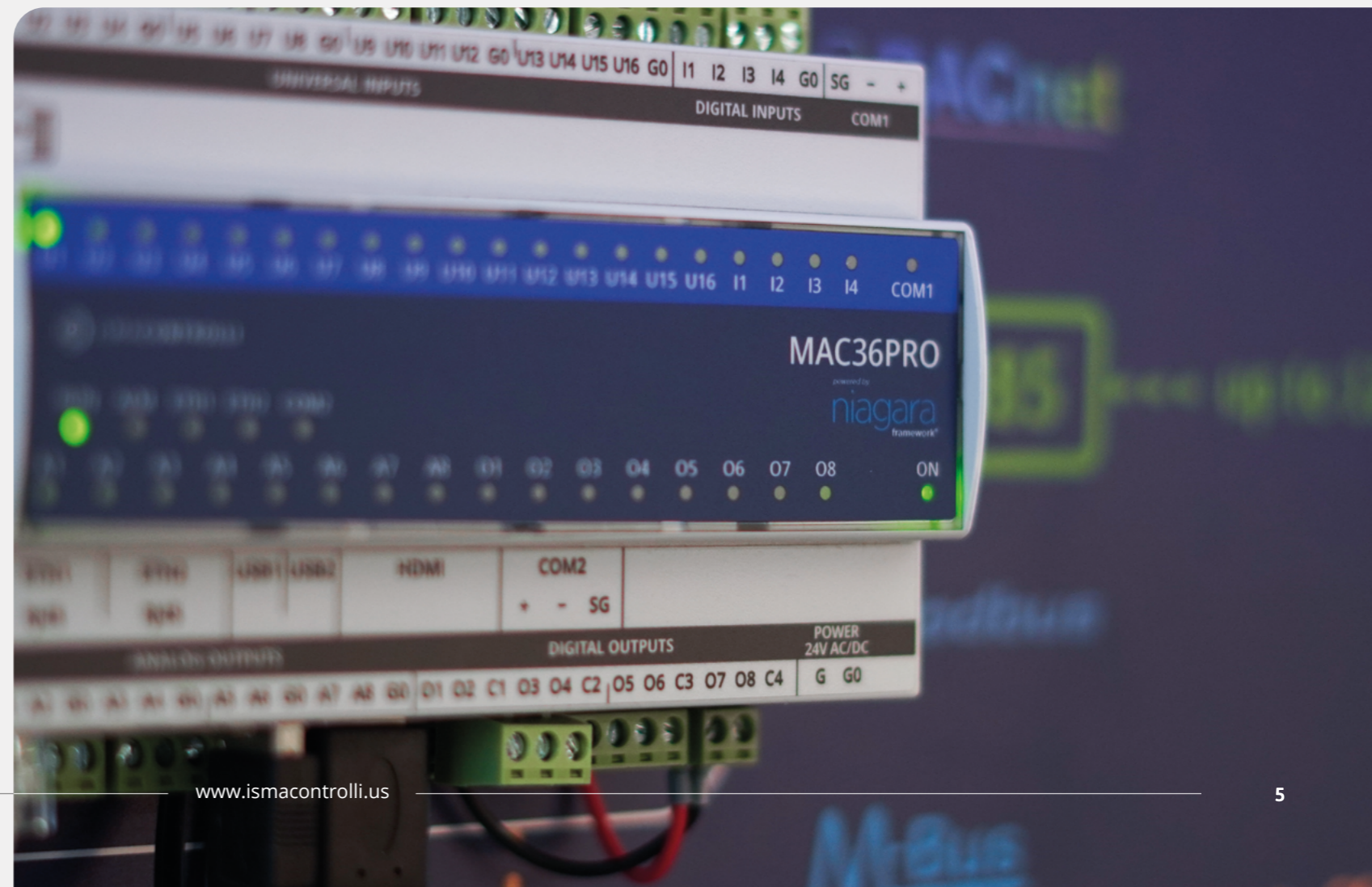
The all-new industrial grade micro SD card offers more storage for your valuable building data.

**New 64-bit iSMA OS**

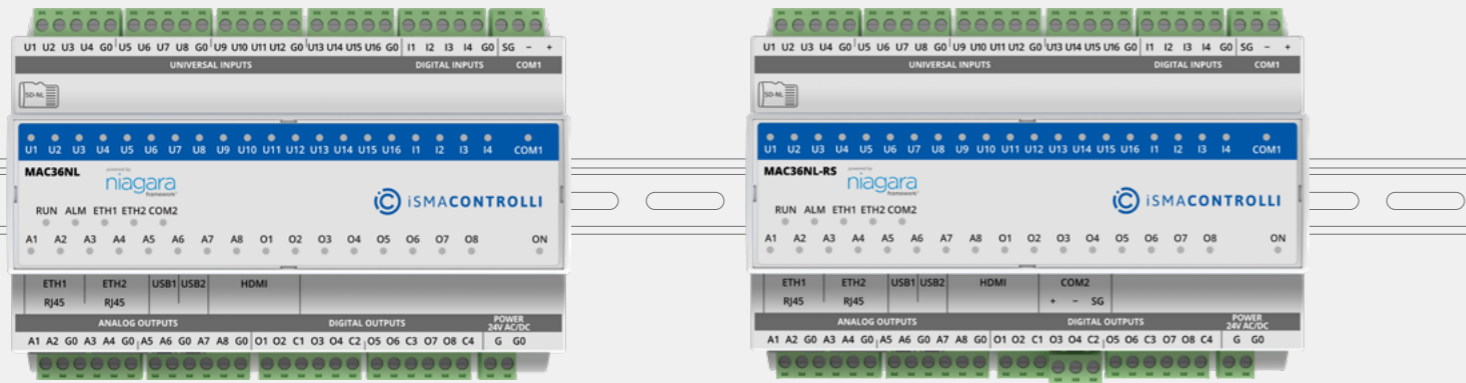
Experience computing at its best with the new Linux operating system.

**Unchanged I/O and Connectivity**

The MAC36PRO controller comes with an ideal set of 36 built-in I/O, two separate Ethernet ports, robust HDMI, and USBs ensuring seamless compatibility with the entire MAC36 Series.







MAC36NL

MAC36NL-RS

**Hybrid IoT Controller Powered by the Niagara Framework**

A powerful controller with 36 onboard I/Os for monitoring and control, trends, alarms, HTML5 visualization, and ability to integrate all protocols that are used in commercial buildings.

**All-in-one Integration**

Achieve a maximum efficiency and comfort in the building, while reducing the energy cost to a minimum thanks to connecting HVAC, metering, lighting, comfort, and energy management into one common platform.

**DDC Control**

Take advantage of the 36 onboard I/Os, manageable within the Niagara Framework for direct control of a building and HVAC equipment.

**Expandability**

36 onboard inputs and outputs can easily be expanded by series of I/O modules by IP or RS485 interface, enhancing the controller capabilities at the time of installation or in the future.

**Powered by the Niagara Framework**

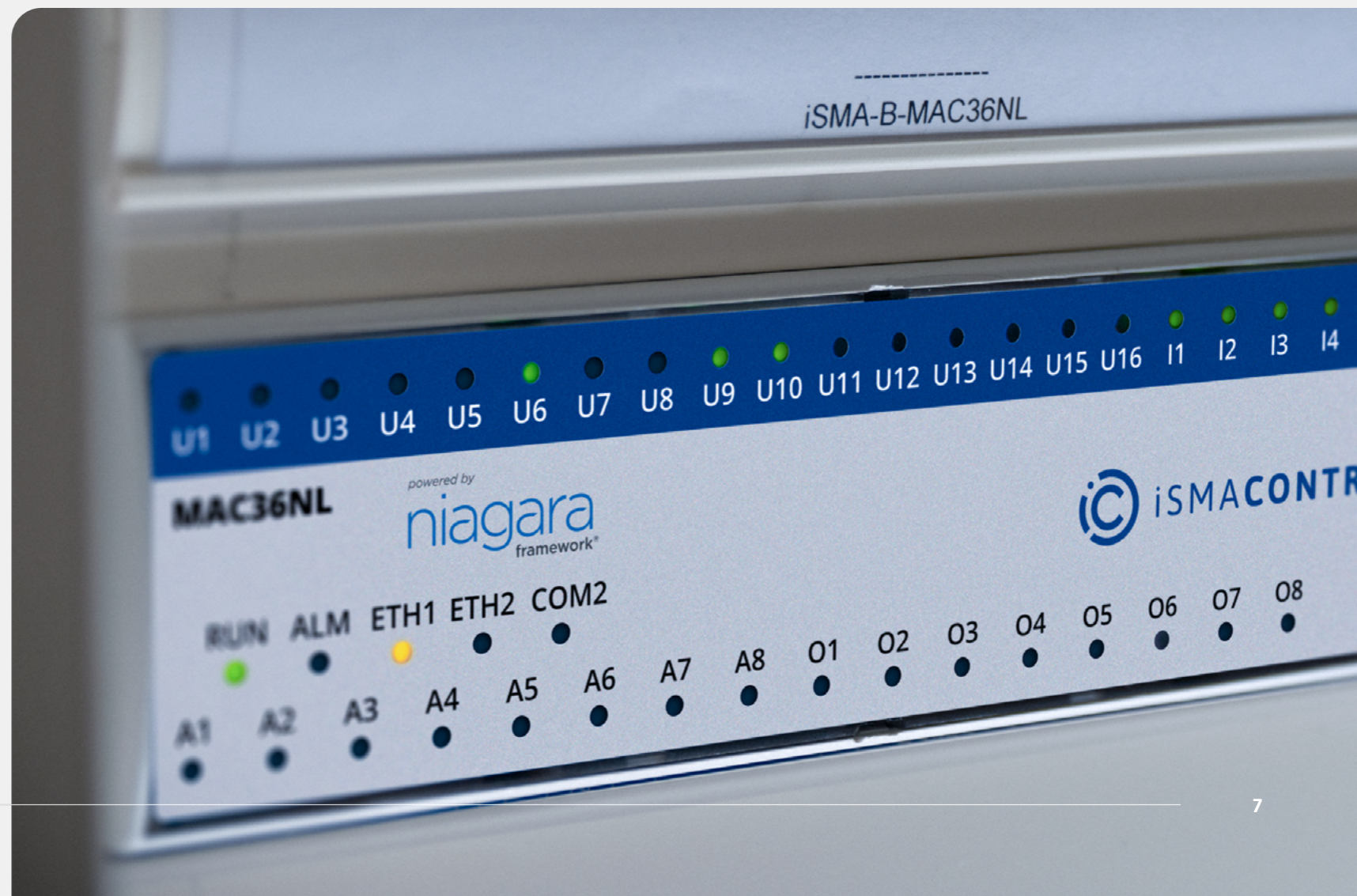
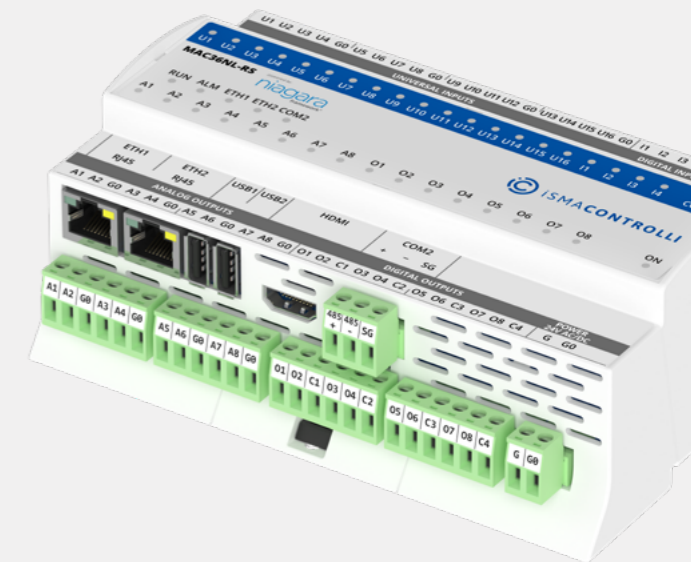
The MAC36NL has supported the Niagara Framework since version 4.8. A continuous upgrade process ensures that the latest version of the Niagara is always supported by the controller.

**36 I/Os and Multiple Interfaces**

Multiprotocol integration platform with 36 I/Os, 2 independent Ethernet ports, 2 RS485 ports, 2 USB, and HDMI interface.

**Cost-effective Visualisation Platform**

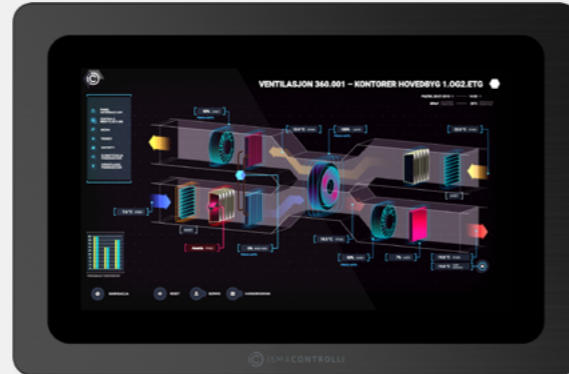
Built-in HDMI 1.4 output with USB for keyboard, mouse, or touch interface allows local control of visualization without an additional computer.







iSMA-B-J9



iSMA-D-PA10C

**Efficient Global Design**

The modular design of the iSMA-B-J9 controller makes it easy to install, integrate and deploy. Tool-less installation with expansion capability reduces installation complexity and improves flexibility. Systems integrators can focus on engineering solutions, not assembling components. And their lives will be simplified with a global power supply and improved access to standard enclosures.

**Increased Performance**

With a Quad Core processor, double storage, and RAM, the iSMA-B-J9 offers increased performance and capacity with faster bootup and station load time. The iSMA-B-J9 is fully compatible with existing expansion models and the same footprint as past models allows for seamless replacement for future updates. The iSMA-B-J9 can also be ordered without the wireless interface if needed.

**Optimized for Niagara 4**

The iSMA-B-J9 controller leverages the exciting features of Niagara 4 (supported running Niagara Framework® 4.13 or higher). It adds to the enhanced user experience, maximizing Niagara 4's key advantages: pure Web interface based on HTML5 with HTML5 views, responsive UI, charting and data visualization, a common design language, better reporting, robust security, and improved device management.



**Key Functionalities and Features**

**Global capacity licensing and upgrade capability**

Determine the number of devices that will be integrated and select the right capacity license from the start. License upgrades can be purchased in the future as your needs grow.

**Modular hardware design for fast and easy installation**

Controller and option modules are designed for easy mounting on a 35 mm-wide DIN rail.

**Expandable with up to four option modules**

Option modules directly attach to the controller for additional communications ports, including types for LonWorks®, IO R modules, RS232 and RS485 networks.

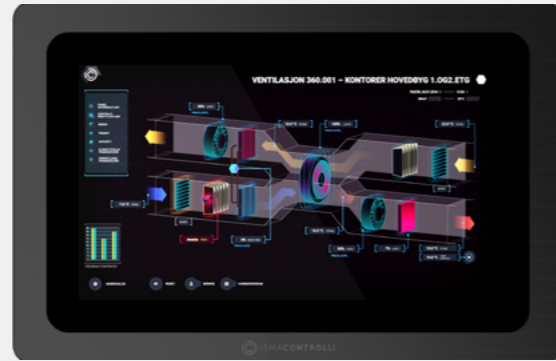




iSMA-D-PA7C



iSMA-D-PA10C



iSMA-D-PA15C

**High-quality Touch Display**

A 10-point capacitive touchscreen with a 16:9 aspect ratio and up to 1920x1080 resolution offers exceptional comfort in a small package.

**iC SmartView**

By increasing a facility's cost-efficiency and simplifying the use of web-based controllers, the iC SmartView is the most versatile, multivendor BMS visualization platform on the market.

**Worldwide Operability**

The UL certified power adapter offers a wide range of operating voltage (110 V - 240 V).



! More about iC SmartView on page 41

**Key Functionalities and Features**

**Available in Three Sizes**

7", 10", and 15" Android panels with VESA or control cabinet snap-joint mounting will meet requirements of all surfaces.

**Wireless Capability**

Android panels offer onboard RJ45 port for Ethernet cable connection, but can also be reached wirelessly with the Wi-Fi card.

**Industrial Grade Housing**

This robust aluminum body made of the highest quality materials allows for an excellent user experience and long service life.







iSMA-D-PD10C

**Direct Integration with the Controller**

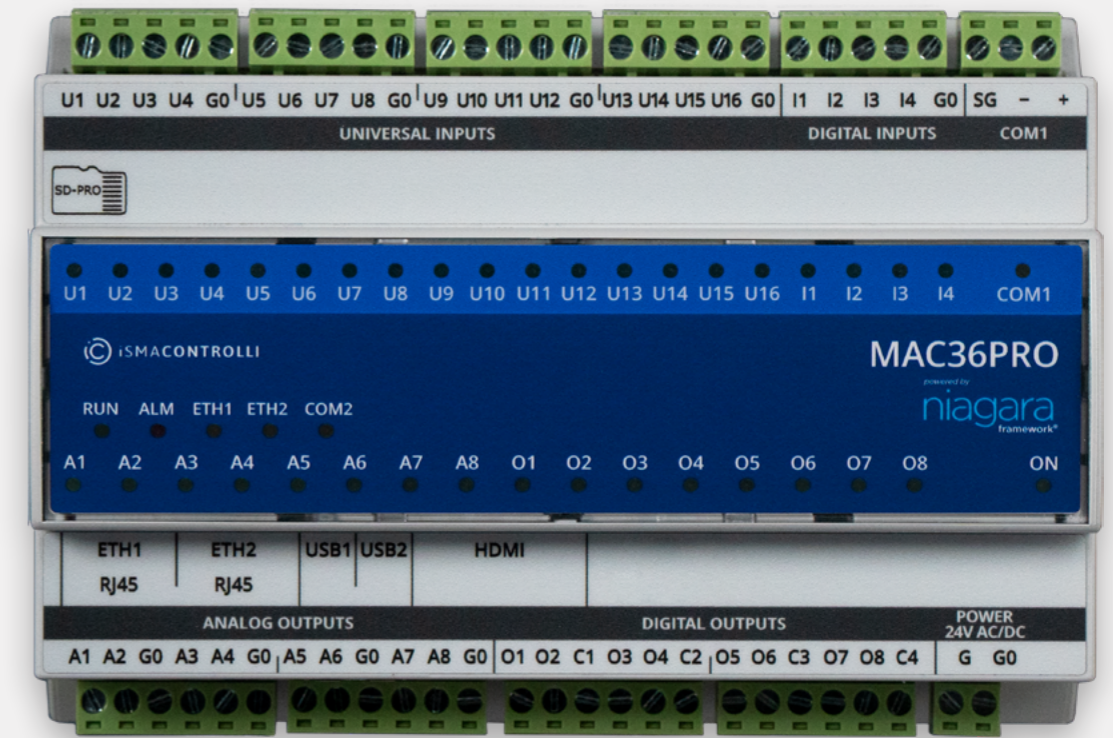
Thanks to a simple connectivity by USB cable for touch and HDMI cable for display, the iSMA-D-PD10 LCD panel makes a perfect, cost-effective extension of the iSMA-B-MAC36PRO controller.

**iSMA OS64**

The controller runs on a unique Linux distribution that allows direct connection of an external display, thanks to the HDMI port and built-in web server, and a connection of touch interface, mouse, or keyboard straight to the controller USB ports.

Input

Output



MAC36PRO

**Award-winning mini-BMS Solution**



**ControlTrends Awards 2020**

The best product in the IoT Product of the Year category at the American ControlTrends Awards.

**BCIA Awards 2021**

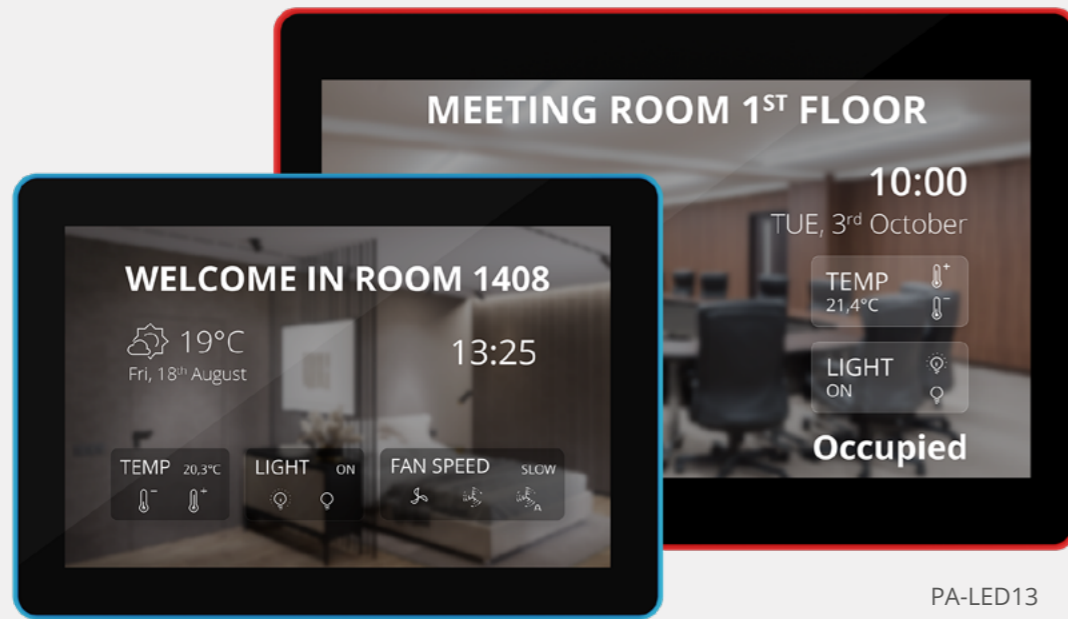
The finalist in the Technical Innovation of the Year - Products category of the 2021 Building Controls Industry Association (BCIA) Awards.



**AHR Expo Innovation Awards 2022**

The best product of the Building Automation Category of the 2022 AHR Expo Innovation Awards.





PA-LED10

PA-LED13

### Key Functionalities and Features

#### Pick the right size

Available in two sizes 10.1" and 13.3" to accommodate different needs.

#### Versatile and Customizable Solution

PA-LED are modern, high-quality Room Panels based on Android 11 that enable seamless integration with residential and commercial solutions.

#### Communication Matters

Built-in multi-color LED frame controlled via REST API allows for a new level of communication with building users.

#### Manage Device Remotely

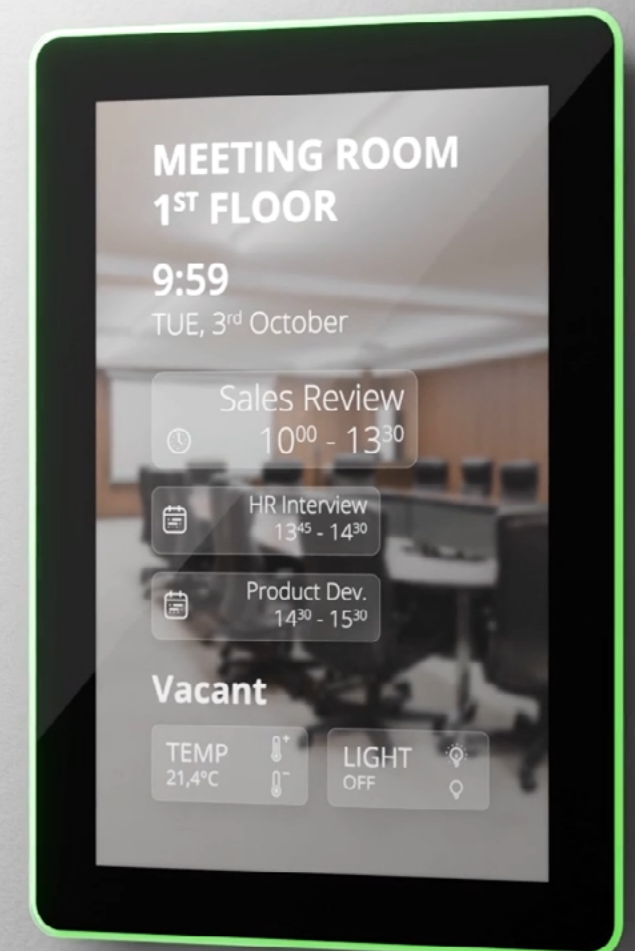
Configure, manage and maintain the panel with a dedicated iC SmartView application.

More about iC SmartView on page 41

### Communication with building occupants. Improved.

Android PA-LED series panels are the perfect solution for modern interiors of residential and commercial buildings. The panels not only add an attractive look to the building space, but also significantly enhance its usability with unique features.

The panels allow to display and control any HTML5-based application thanks to the dedicated iC SmartView platform. The built-in multicolor LED bar allows for direct interaction with building users through visual communication.



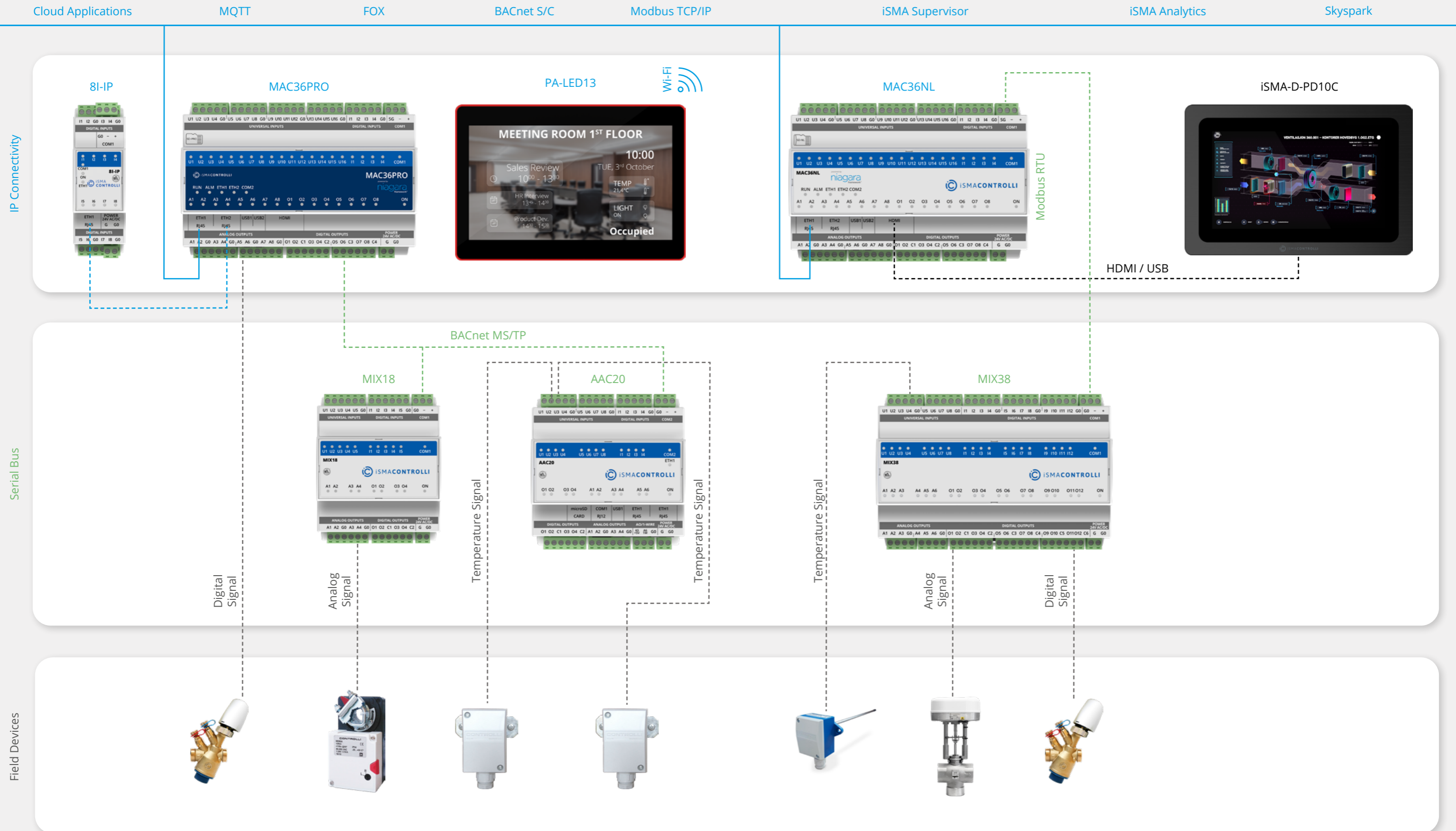
### Simplified installation with PoE+

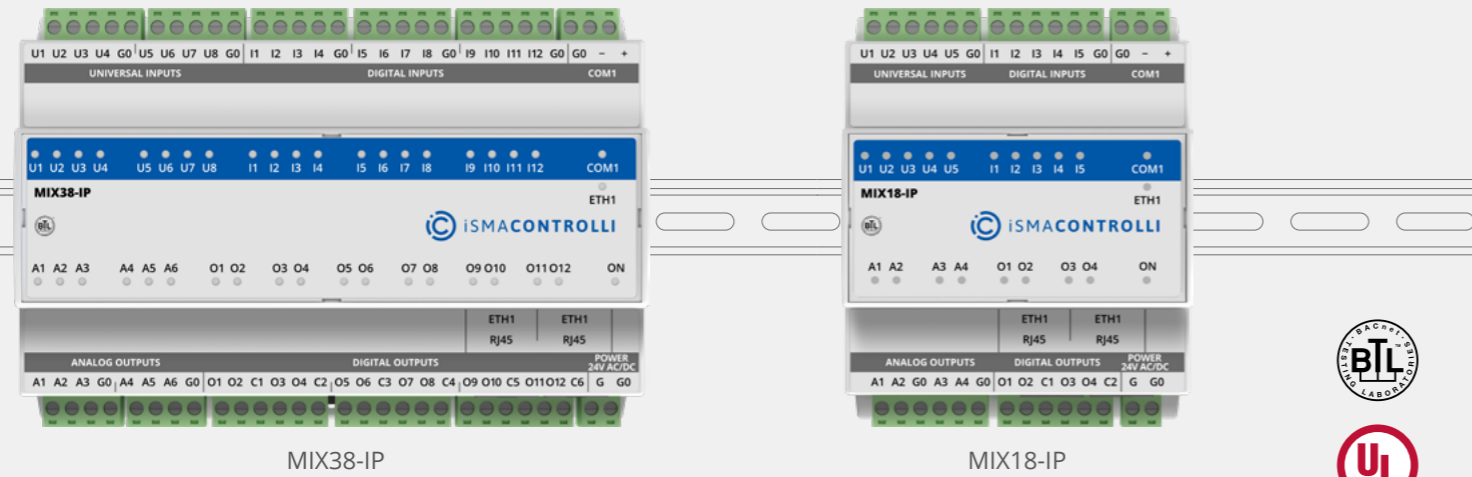
PA-LED panels offer a user-friendly design offering installation in both landscape and portrait modes, that seamlessly integrates into any environment.

Supporting both Power over Ethernet (PoE) and DC power supply, our panels come equipped with metal mounting brackets for easy installation on any surface.









**Communication**

**BACnet IP**

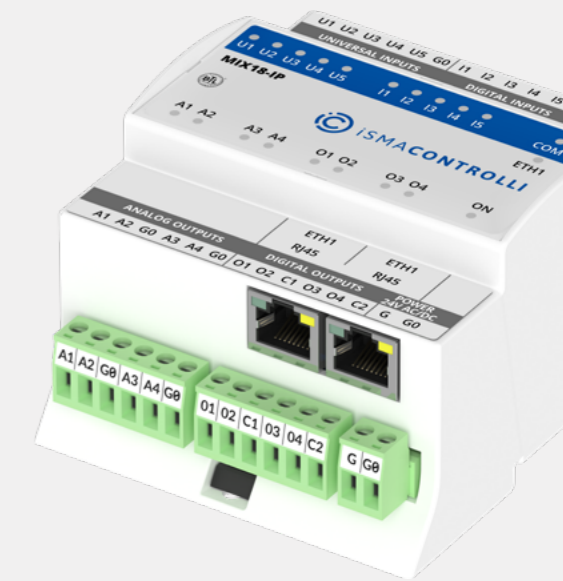
Multiprotocol I/O modules are equipped with Building Automation and Control Networks (BACnet) and are certified by the official BACnet Test Laboratories (BTL).

**Modbus TCP/IP**

Modbus is one of the most used protocols in industrial electronic devices.

**Modbus TCP/IP to Modbus RTU/ASCII Gateway**

IP Multiprotocol I/O modules can serve as a Modbus gateway with onboard COM1 port.



**Multiprotocol Module with a MIX of I/O's**

The most versatile I/O module with 18 or 38 inputs and outputs, offering the most cost-effective price per point ratio. The most popular types of inputs and outputs are MIXed in a space-saving design and allow the module to be a versatile controller extension, whether in a small or large facility.

**Open Protocols Standard**

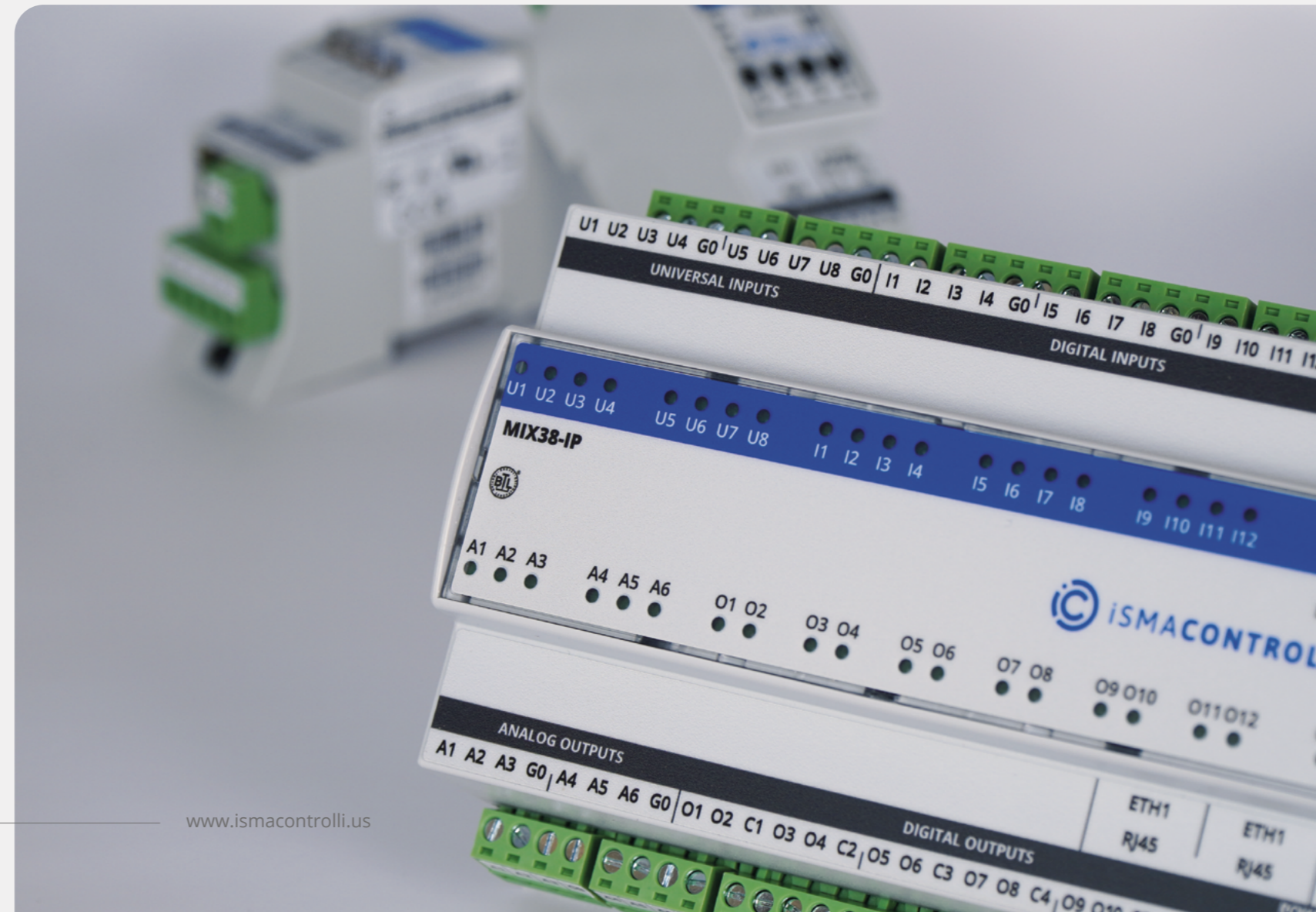
Powerful I/O modules that work as remote or distributed I/Os over IP with open protocols: BACnet IP and Modbus TCP/IP. Open protocols standard offers a versatility of installing the modules in both new and existing facilities, whether it is a system expansion or a retrofit.

**Daisy Chaining**

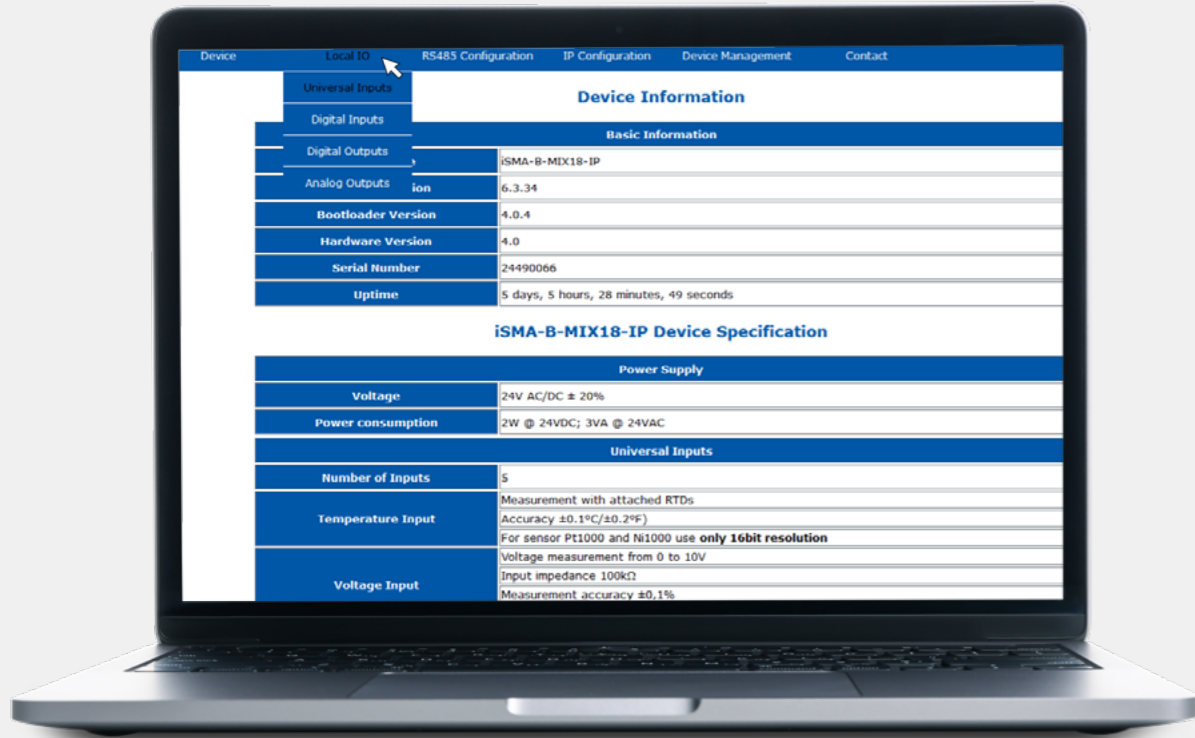
Two Ethernet ports working in a switch mode allow for daisy chaining multiple modules over an RJ45, which enhances the cabling process and reduces the engineering time.

**IP I/O Module & Modbus Gateway**

Each IP I/O module, next to its functionalities, is equipped with a COM1 communication port that serves as Modbus TCP/IP to Modbus RTU/ASCII gateway.







**Key Functionalities and Features**

**BACnet and Modbus protocols**  
Easily selectable with a DIP switch.

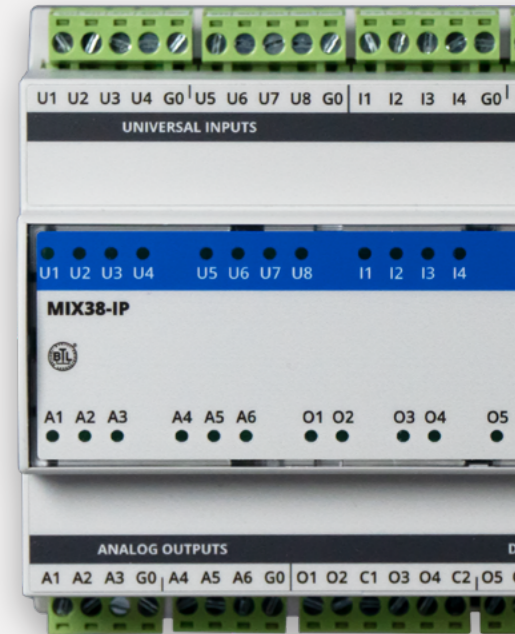
**Web-server**  
Built-in web server for seamless I/O and network configuration.

**Inputs and outputs**  
Up to 38 inputs and outputs fitting the most of the building applications.

**Onboard LED**  
Statuses of all I/Os and communication.

**Built-in**  
Modbus TCP/IP to Modbus RTU/ASCII gateway.

**Two Ethernet ports**  
Working in a switch mode.



**Reduced Labor Costs**

Building automation systems based on IP technologies enable completely new possibilities in terms of device management, like direct remote device access, building maintenance, and overall cost optimization including reduced labor costs.

**Ease of Installation**

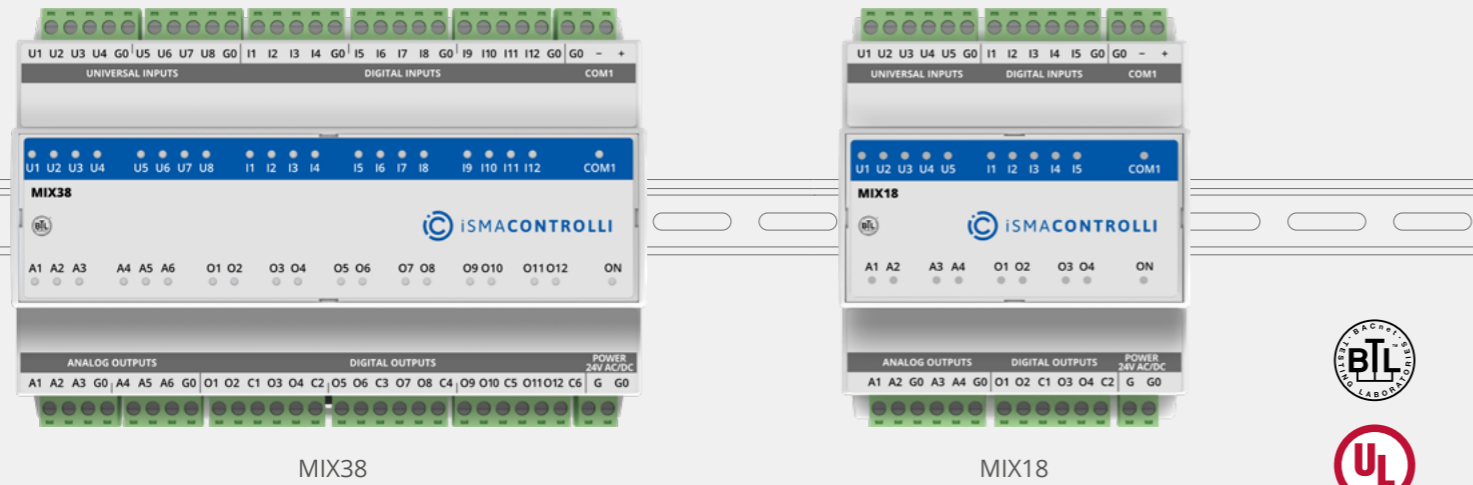
MIX multiprotocol I/O modules take the IP game to a new level with an onboard Ethernet switch, enabling daisy chaining multiple devices into one common IP system based on Modbus TCP/IP and BACnet IP.

**Web-based Configuration**

Built-in web server enables not only a seamless device configuration without any additional tools, but also enables a preview of all I/O states and device specification, all with password-protected access.







**BACnet MS/TP and Modbus RTU**

RS485 multiprotocol I/O modules are equipped with two most popular open protocols in building automation, BACnet and Modbus.

**Seamless Configuration**

The protocol and other parameters can be configured in a matter of seconds thanks to onboard DIP and rotary switches.

**Powering with USB Cable**

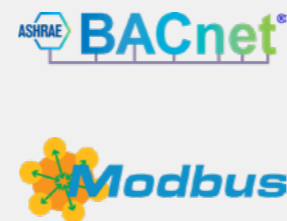
The ability to be powered from a USB port facilitates local testing and a straightforward updating process.

**ISMA Configurator**

Portable software dedicated for device configuration and firmware upgrade.

**Dedicated Niagara Framework Modules**

Seamless integration of multiprotocol I/O in Niagara Framework using a dedicated module.



**Standard of Inputs and Outputs**

**Universal Inputs**

Support for over 20 types of temperature sensors and voltage, resistance, current, and dry contact measurements on each universal input.

**Digital Inputs**

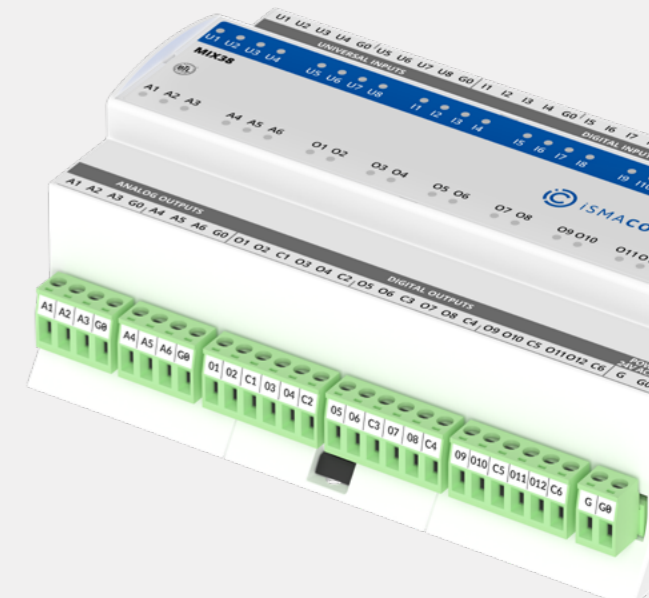
Dry contact inputs - made for monitoring. 100 Hz fast pulse counter with override function saves the real-time values to EEPROM memory.

**Analog Outputs**

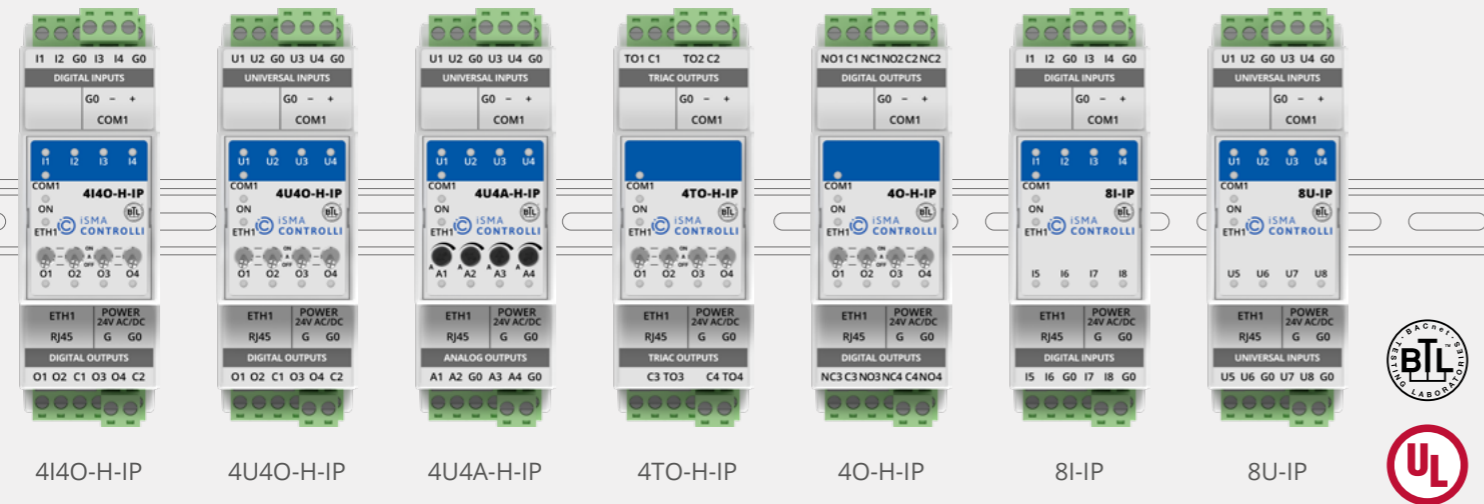
0-10 V DC control with 10 mA accuracy, PWM modes and a maximum load of up to 20 mA to power external relays makes the output suitable for a variety of scenarios.

**Digital Outputs**

Equipped with normally open 3 A relays allow for direct control without additional relays.







**I/O Modules Ready for the Future**

Future-proof a building with open communication protocols. The modules can be integrated with most modern BMS systems.

I/O IP modules are equipped with both Modbus TCP/IP and BACnet IP onboard. I/O RS485 modules have both Modbus RTU/ASCII and BACnet MS/TP onboard.

**The Right Modules from Small to Large Applications**

Extremely compact dimensions and a wide range of I/O combinations make the MINI modules applicable in most of building automation systems.

**Seamless Configuration**

The protocol and other parameters can be configured in a matter of seconds thanks to onboard DIP and rotary switches.

**IP I/O Module & Modbus Gateway**

Each IP I/O module, next to its functionalities, is equipped with a COM1 communication port that serves as Modbus TCP/IP to Modbus RTU/ASCII gateway.

**Key Functionalities and Features**

**Wide Range of I/O Modules**

Compact size and a wide range of module types allow for ultimate flexibility in projects.

**Built-in HVAC and Light Applications**

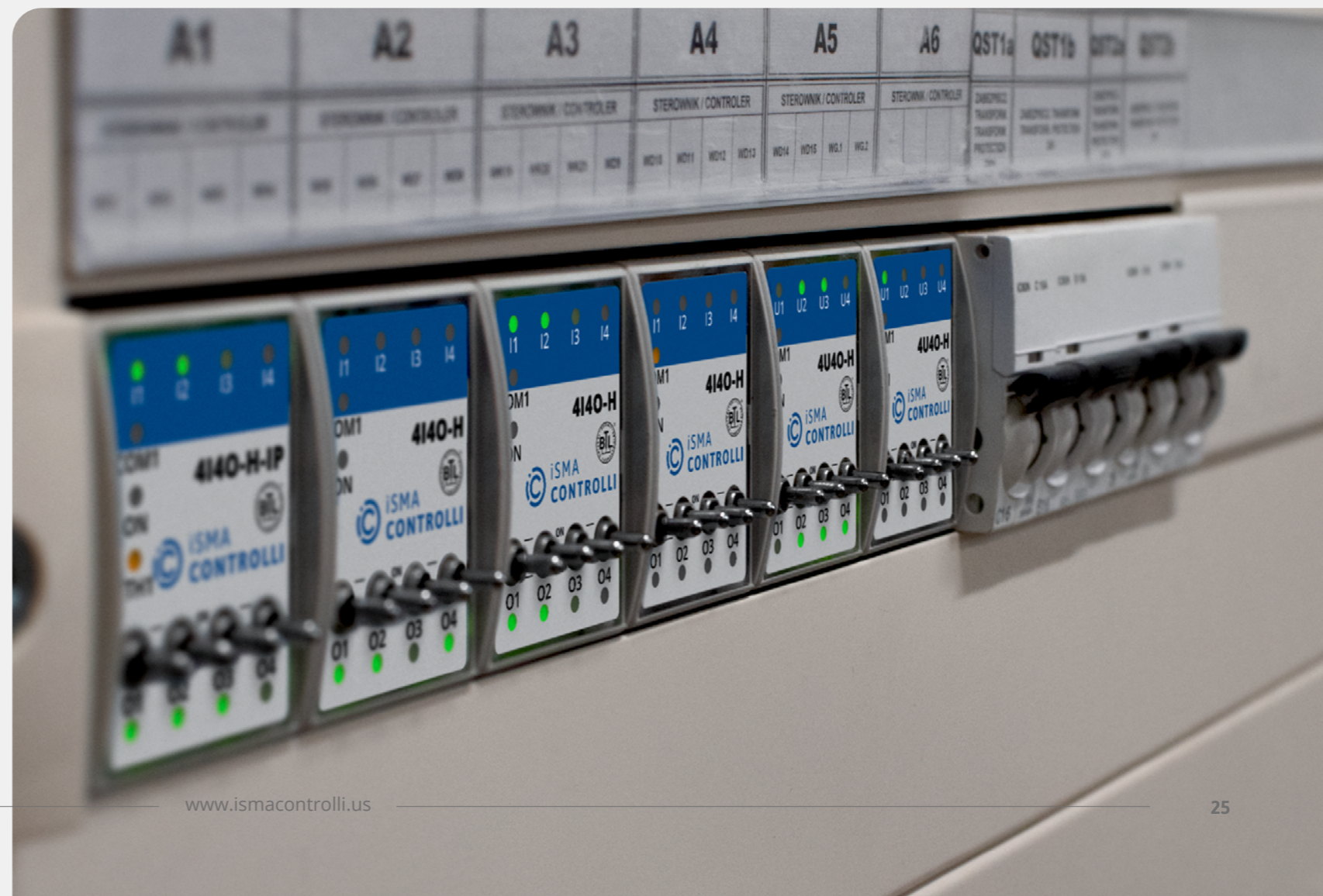
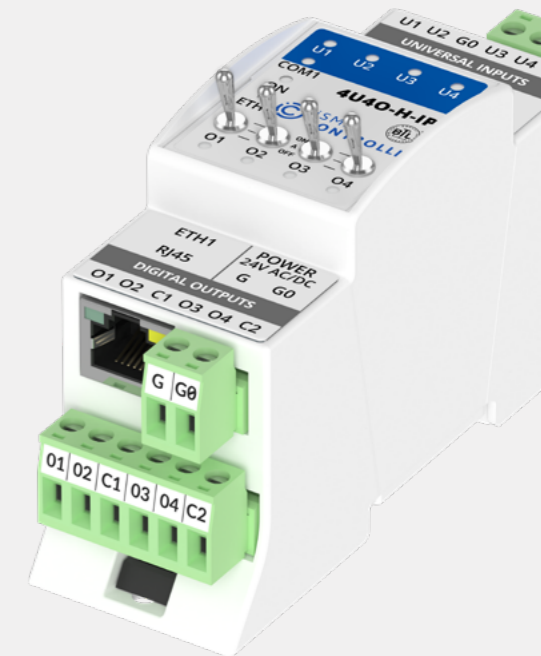
Light, cooling, and heating configurable algorithms make the module applicable as a standalone controller.

**Manual Override Switches**

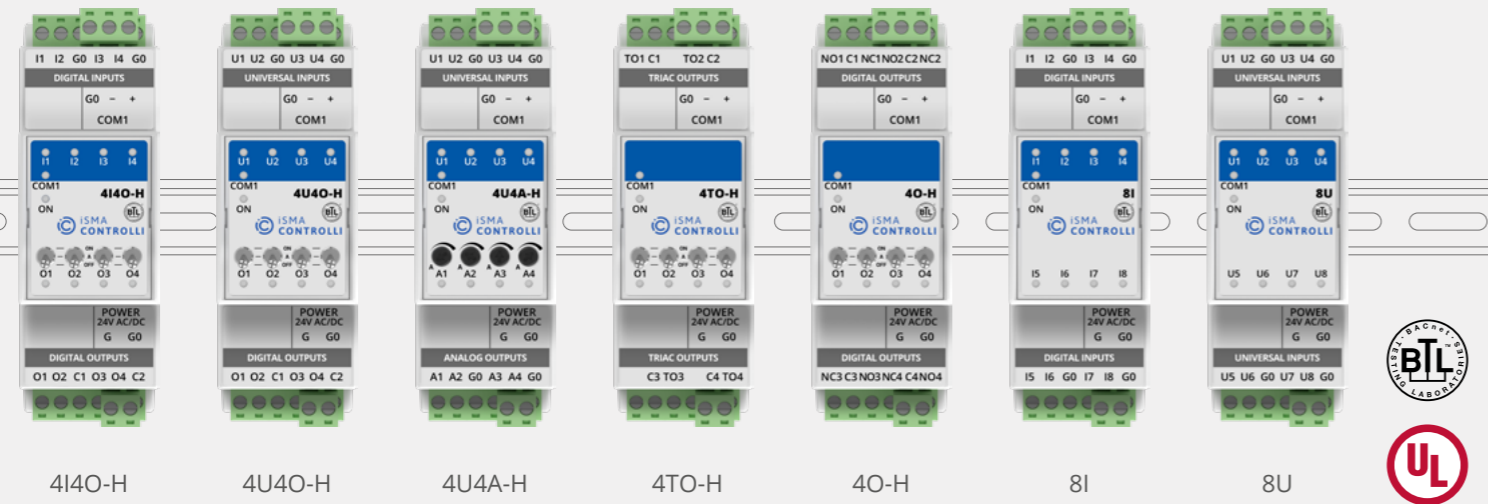
Each output can be manually overridden using a dedicated hand operating switch.

**Modbus TCP/IP to Modbus RTU/ASCII Gateway**

Built-in Modbus gateway on the COM1 port enables integration of up to 128 Modbus slave devices to the IP layer.







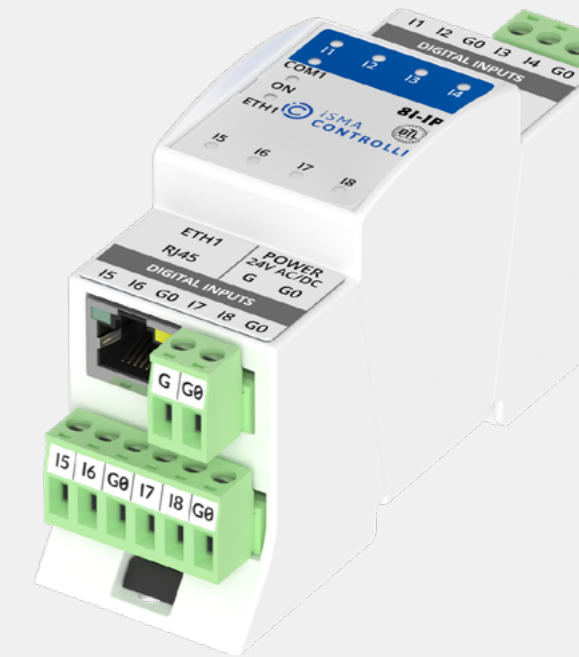
**Key Functionalities and Features**

**BACnetMS/TP and Modbus RTU/ASCII**  
Protocols, easily selectable with a DIP switch.

**Wide Range of I/O Modules**  
Compact size and a wide range of module types allow for ultimate flexibility in projects.

**Built-in HVAC and Light Applications**  
Light, cooling, and heating configurable algorithms make the module applicable as a standalone controller.

**Manual Override Switches**  
Each output can be manually overridden using a dedicated hand-operating switch.



**Manual Override Switches**

Modules with digital, triac, and analog outputs can be manually overridden using hand operating switches.

**Standalone Controllers**

Built-in HVAC and lighting applications in selected modules make them applicable as standalone controllers in light, cooling, and heating applications.

**Built-in Web Server**

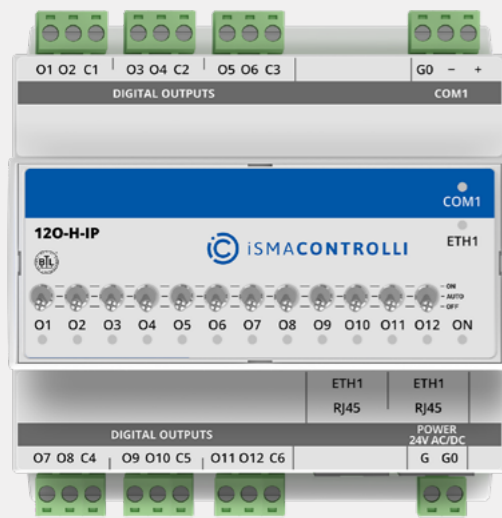
Technical overview and troubleshooting. BBMD, I/O, and protocol configuration – all can be done with a built-in web server.

**High Scalability**

RS485 I/O modules use only ¼ UL (unit load) on the bus. It means 128 iSMA I/O modules can be used on one serial bus, according to the EIA-RS485.







120-H-IP

### 120-H-IP and 120-H

#### Modules with a MAX number of Digital Outputs

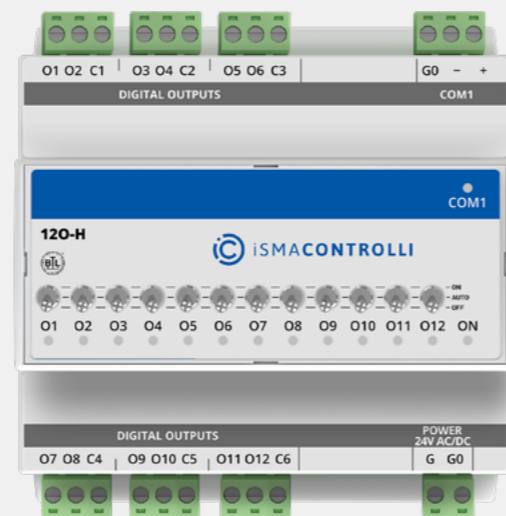
Digitalize buildings with reduced engineering time using the powerful 12 digital outputs module, which works as a remote I/O over the serial port with open protocols: BACnet MS/TP, and Modbus RTU/ASCII.

Open protocols standard offers the versatility of installing the modules in both new and existing facilities, whether it is a system expansion or a retrofit.



#### Simplified Configuration and Commissioning Process

The module allows for seamless configuration over BACnet, Modbus, built-in web server, or a dedicated free-of-charge tool. The ability to be powered from a USB port facilitates local testing and a straightforward updating process, and the high-end RS485 transceiver allows up to 128 devices to communicate reliably with the client on a single bus.



120-H

**A powerful addition** to any building automation system.

### Key Features

#### 12 Digital Outputs

Digital outputs equipped with normally open 3 A relays allow for direct control without additional relays.

#### Manual Override Switches

Each output can be manually overridden using a dedicated hand-operating switch.

#### Onboard LED

Statuses of all I/Os and communication.

#### Two types of I/O configuration

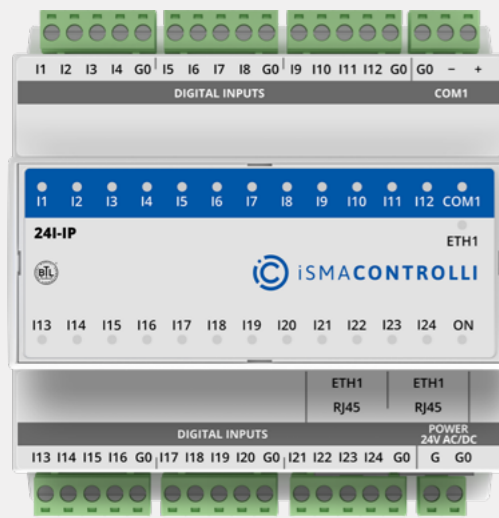
Multiprotocol I/O Modules with a MAX number of Digital Inputs or Digital Outputs.

#### BACnet IP and Modbus TCP/IP or BACnet MS/TP and Modbus RTU/ASCII

Protocols, easily selectable with a DIP switch.







24I-IP

### 24I-IP and 24I

#### Modules with a MAX number of Digital Inputs

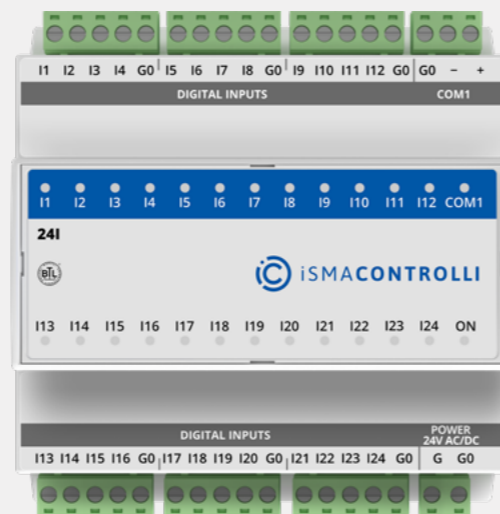
MAXimize your efforts with a 24 digital inputs module with open protocols: BACnet and Modbus. The module is designed for data monitoring in, for example, data centers and HVAC applications.

The compact design allows multiple inputs to be packed into onehousing, resulting in shorter engineering time, faster integration and easier commissioning.



#### Simplified Configuration and Commissioning Process

The module allows for seamless configuration over BACnet, Modbus, built-in web server, or dedicated free of charge tool. The ability to be powered from a USB port facilitates local testing and a straightforward updating process. Two Ethernet ports working in a switch mode allow for daisy chaining of multiple modules over the RJ45, which facilitates the cabling process and reduces engineering time.



24I

**3x** Faster installation  
Easier to maintain  
Less cabling

### Key Features

#### 24 Digital Inputs

Dry contact inputs - made for monitoring. 100 Hz fast pulse counter with override function saves the real-time values to the EEPROM memory.

**BACnet IP and Modbus TCP/IP or BACnet MS/TP and Modbus RTU/ASCII** Protocols, easily selectable with a DIP switch.

#### Two types of I/O configuration

Multiprotocol I/O Modules with a MAX number of Digital Inputs or Digital Outputs.

#### Manual Override Switches

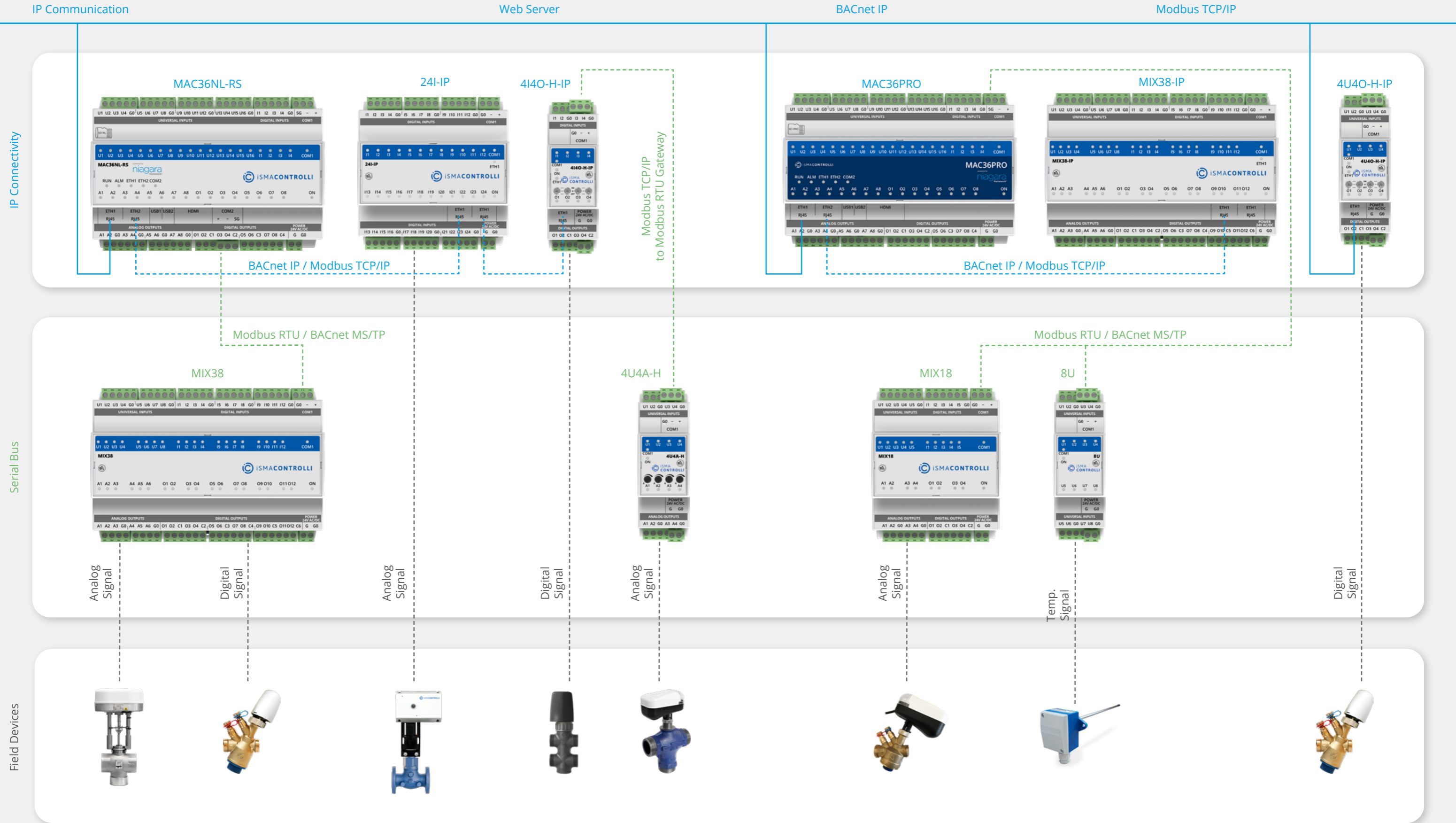
Each output can be manually overridden using a dedicated hand-operating switch.

#### Onboard LED

Statuses of all I/Os and communication.









The nano EDGE ENGINE is an embedded software platform dedicated to EDGE Devices with microcontrollers, making them IoT-ready building devices with smart functionalities.

**nano** - extremely light software engine designed to be installed on EDGE Devices based on microcontrollers such as actuators, controllers, I/O modules, sensors, etc.

**EDGE** - tailored to provide EDGE Devices intelligent and smart functionalities with secure connection to the cloud.

**ENGINE** - allowing to build logic, integrate with other devices, collect data, expose data and connect with cloud. It's developed to be hardware independent.

**Modularity provided by libraries**

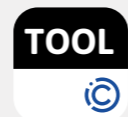
Universal software engine built in a modular way, allowing users to install only the required libraries. This provides flexibility, allowing them to freely decide on the final purpose of the device.

**nano EDGE ENGINE is tailored**

- to build logic using ready building automation function blocks
- to integrate with other devices using open protocols
- collect and expose data to BMS system
- connect with the cloud

**Niagara Enabled**

Allows seamless programming of nano EDGE ENGINE in Niagara Framework and free-of-charge software iC Tool.



niagara<sup>4</sup>

**Real-time programming**

Maintain and program your device from anywhere in real time, with instant change, compile and decompile code is no longer needed.

**Cycle-driven multithreaded application**

Multi-application with different cycles for efficient resources management from fast responding to less demanding applications.

**Data Points with auto exposition mechanism**

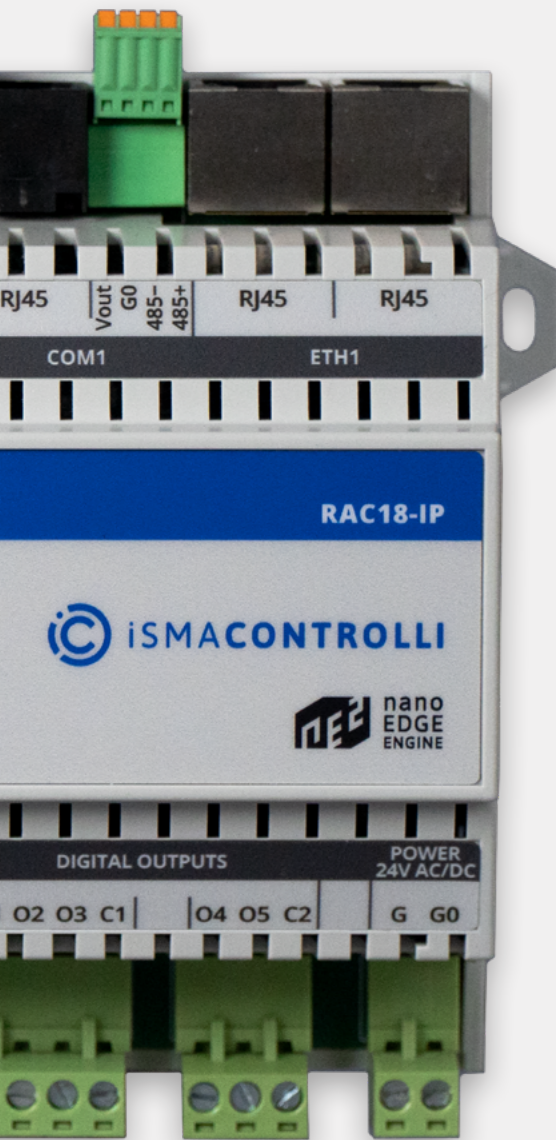
It is a mechanism allowing all Data Points added to the project to be exposed to the BACnet or Modbus network by default.

**Reference linking method**

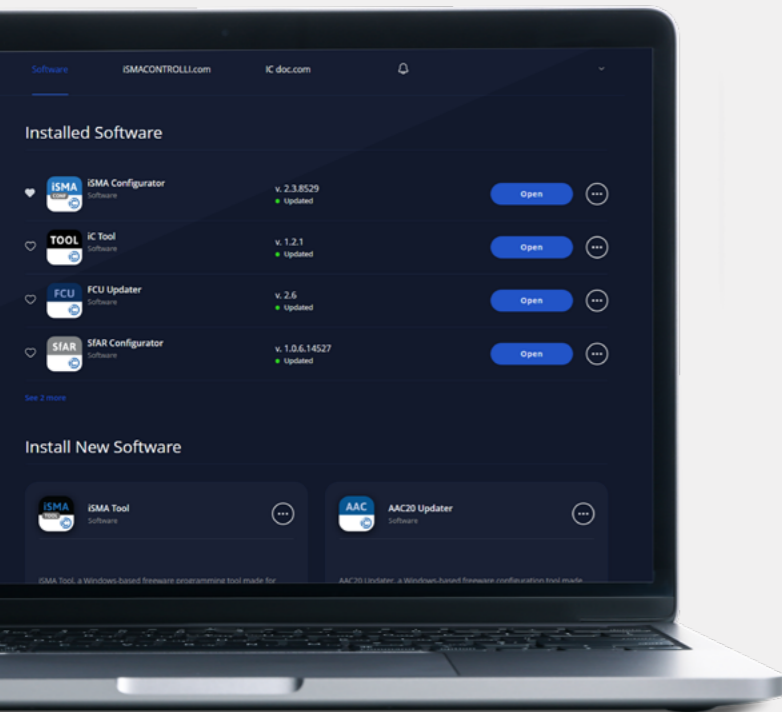
The innovative linking method is called the Reference Link. It is designed to bidirectional exchange the value between devices transferring also the current status.



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### iC Connect

The iC Connect is our response to clients' needs. Our primary goal was to establish a common platform for a product database and compatible software, all in one place.

The iC Connect allows to manage all installed iSMA CONTROLLI applications using one convenient tool.

### Key Features

- Easy installation
- Free registration and login
- Product and software database
- Filtering by software or product
- Auto-update
- Notifications
- Light and dark color themes
- Multilingual support
- Shortcuts and favorites
- Online documentation browsing



### Ease and Convenience

No need to waste time searching through multiple sources - the iC Connect provides one space for all software compatible with all iSMA CONTROLLI products. It features a two-way search: either by product or by software. Each product page indicates compatible applications, and each software page shows related products.

### Full Control

Manage all installed iSMA CONTROLLI applications in a simple and efficient manner. The iC Connect supports software installations and updates, along with an auto-update function.

### Efficiency

The iC Connect features allow the user to focus on what truly matters without unnecessary hassle. Among others, it allows to list favorite applications, which enables tracking most recent software developments without a time-consuming research.

The auto-update function ensures that both the iC Connect and all managed software are always in latest versions.







**iSMA EC 2D Graphics**

The library is a comprehensive, high-quality graphics library for HVAC applications operating in the Niagara Framework environment.

**Easy-to-read Graphics Library**

The library introduces a wide range of high-quality 2D graphical widgets that represent building systems and equipment. The graphic design is light, clear and allows for a rapid preparation of the system visualisation.

**Compatible with Niagara 4**

The EC 2D Graphics library has been designed to run on devices with the Niagara Framework, version 4.4 and above.

**Exclusive for MAC36NL**

Every MAC36NL comes licensed with the EC 2D Graphics library with no additional cost.

**All-in-one Solution for HVAC**

The library covers HVAC related equipment such as heating, cooling, air handling, and other building control devices like lighting, metering, piping, and motion detection.

**Demo Station**

To simplify and accelerate the creation of visualization, the demo station has been prepared with real-life application examples that can be easily copied between the stations.

**Key Features**

- Designed to be used with devices powered by the Niagara 4 Framework
- Library licensed exclusively for the MAC36 Series
- A comprehensive range of images, including HVAC equipment, fans, meters, pumps, and more
- Equipment enabling the creation of high-quality, modern, and colored 2D graphics representing plant items and devices
- Available in blackline and whiteline



**iSMA Graphics**

A comprehensive high-quality and fresh-looking graphics library for HVAC and light applications operating in the Niagara Framework.

**Modern Looking Graphics Library**

The library introduces a wide range of high-quality 3D graphical widgets that represent building systems and equipment. The design of the graphics is fresh, modern and allows for intuitive recognition of the system.

**Compatible with Niagara 4**

The 3D graphics library has been designed to run on devices with the Niagara Framework, version 4.4 and above.

**Graphic Templates for HVAC Applications**

To simplify and accelerate the creation of visualization, the library has been packed with a set of graphic templates prepared to run with the HVAC equipment such as AHU/RTU/VAV and FCU.







## iC SmartView

### One Platform to Support all Controllers

The iC SmartView is an app designed for the ISMA CONTROLLI Android panels, offering comprehensive controllers management and seamless device access throughout your building.

iC SmartView simplifies the process of managing credentials with a primary focus on facilitating easy logins and access to Niagara stations and other HTML5 web servers, thereby enhancing building maintenance and management.

### Instant Access Throughout the Building

Log in to each controller separately using an auto-login feature, and set one main controller as a home station to access it directly when the application starts. To provide local security and still support instant access, each controller can be protected with a PIN code. No need to remember IP address, username, and password, the application does it for the user.

### Kiosk Mode

The application can be set in a password-protected Kiosk mode to exclude access to the Android system and other applications.

### Remote Access

The application offers remote management of its functions using rest API, which allows remote control of the panel, like adding new controller views, managing screen brightness or screensaver and others.

### Import/Export Settings

Settings of the application can be easily exported for the straightforward configuration of multiple Android panels.

### Multilanguage Support

The application supports multiple languages including EN, DE, CZ, IT, HU, LV, PL.

## Key Features

- Add credentials for multiple users/stations
- Credentials are saved in the application, there is no need to reenter each time the user wants to login
- PIN protection for instant controller access
- Home station – possibility to mark one of the added connections as home station, in this case, the app will automatically log into it
- Kiosk mode – the application blocks possibility to use any other programs on a device
- Application is set up as the default startup application
- Import/export option – possibility to import and export all settings and added connections to/from a file
- Different language options
- REST API commands for remote control
- Dark and light app themes
- Direct in-app updates and auto-updates
- Built-in Screensaver function with a custom logo option





**MAC36 Controllers**

**MAC Controllers**

Product Code	Description
iSMA-B-MAC36NL	Hybrid IoT Controller powered by the Niagara Framework is a scalable solution for small and medium-sized buildings for a comprehensive control, process visualization, and energy management. Equipped with Linux, 36 I/Os, 2 Ethernet ports, 2 USB ports, HDMI, and RS485 communication port.
iSMA-B-MAC36NL-RS	Hybrid IoT Controller powered by the Niagara Framework is a scalable solution for small and medium-sized buildings for a comprehensive control, process visualization, and energy management. Equipped with Linux, 36 I/Os, 2 Ethernet ports, 2 USB ports, HDMI, and 2 RS485 communication ports.
iSMA-B-MAC36NL-M	Hybrid IoT Controller powered by the Niagara Framework is a scalable solution for small and medium-sized buildings for a comprehensive control, process visualization, and energy management. Equipped with Linux, 36 I/Os, 2 Ethernet ports, 2 USB ports, HDMI, M-Bus interface, and RS485 communication port.
iSMA-B-SD-NL	SD card dedicated for iSMA-B-MAC36NL controllers. Used to store and move configuration files and licenses. Required to start the controller.
iSMA-B-MAC36PRO	The latest generation of Master Application Controllers powered by Niagara Framework. Its compact size, versatile peripherals, and robust local visualization make it the go-to stand-alone controller for effective building management.
iSMA-B-MAC36PRO-RS	The latest generation of Master Application Controllers powered by Niagara Framework. Its compact size, versatile peripherals, and robust local visualization make it the go-to stand-alone controller for effective building management, with 2 RS485 ports.
iSMA-B-MAC36PRO-M	The latest generation of Master Application Controllers powered by Niagara Framework. Its compact size, versatile peripherals, and robust local visualization make it the go-to stand-alone controller for effective building management, with M-Bus interface.
iSMA-B-SD-PRO	Industrial grade 8 GB micro SD card dedicated for iSMA-B-MAC36PRO controllers. Stores the system data, user data and licenses. Required for the operation of the controller.

**MAC36 Software Options**

**MAC Controllers**

Product Code	Description
iSMA-B-MAC-L-50	Niagara Core License for 3 devices and 50 Niagara proxy points (requires maintenance)
iSMA-B-MAC-L-100	Niagara Core License for 5 devices and 100 Niagara proxy points (requires maintenance)
iSMA-B-MAC-L-250	Niagara Core License for 5 devices and 250 Niagara proxy points (requires maintenance)
iSMA-B-MAC-L-500	Niagara Core License for 10 devices and 500 Niagara proxy points (requires maintenance)
iSMA-B-MAC-L-1250	Niagara Core License for 25 devices and 1250 Niagara proxy points (requires maintenance)
iSMA-B-MAC36PRO-L-100	Niagara Core License for 5 devices and 100 Niagara proxy points (requires maintenance)
iSMA-B-MAC36PRO-L-250	Niagara Core License for 5 devices and 2500 Niagara proxy points (requires maintenance)
iSMA-B-MAC36PRO-L-500	Niagara Core License for 5 devices and 100 Niagara proxy points (requires maintenance)
iSMA-B-MAC36PRO-L-1250	Niagara Core License for 25 devices and 1250 Niagara proxy points (requires maintenance)
iSMA-B-MAC36PRO-L-5000	Niagara Core License for 100 devices and 5000 Niagara proxy points (requires maintenance)

**J9 Bundled with a License**

**Integration Controllers**

Product Code	Description
iSMA-B-J9-100	Complete network controller with 18 months upgrade subscription and up to 100 proxy points service
iSMA-B-J9-250	Complete network controller with 18 months upgrade subscription and up to 250 proxy points service
iSMA-B-J9-500	Complete network controller with 18 months upgrade subscription and up to 500 proxy points service
iSMA-B-J9-1250	Complete network controller with 18 months upgrade subscription and up to 1250 proxy points service
iSMA-B-J9-5K	Complete network controller with 18 months upgrade subscription and up to 5000 proxy points service
iSMA-B-J9-10K	Complete network controller with 18 months upgrade subscription and up to 10000 proxy points service

**J9 Hardware Options**

**Integration Controllers**

Product Code	Description
iSMA-B-J9-LON-1	Expansion module with single FTT10A port
iSMA-B-J9-485-2	Expansion module with 2 RS485 ports
iSMA-B-J9-232-1	Expansion module with single RS232 port

**Industrial LCD Panel**

**HMI Panels**

Product Code	Description
iSMA-D-PD10C-B1-US	iSMA-D-PD10C-B1 is 10.1" Industrial Panel LCD designed to simplify the use of the iSMA-B-MAC36NL controller by leveraging the HDMI output. <b>US plug type.</b>

**Android Touch Panels**

**HMI Panels**

Product Code	Description
iSMA-D-PA7C-B1-US	7" Industrial Panel PC with Android operating system and dedicated iSMA Android Application. <b>US plug type.</b>
iSMA-D-PA10C-B1-US	10" Industrial Panel PC with Android 7.1 operating system and dedicated iSMA Android Application. <b>US plug type.</b>
iSMA-D-PA15C-B1-US	15" Industrial Panel PC with Android 7.1 operating system and dedicated iSMA Android Application. <b>US plug type.</b>
PA-LED10-B	10.1" commercial LCD room panel with LED bar, Android operating system, and dedicated iC SmartView application
PA-LED13-B	13.3" commercial LCD room panel with LED bar, Android operating system, and dedicated iC SmartView application



**MIX Series I/O Modules with RS485 and IP**

Product Code	Description
iSMA-B-MIX18-IP	Multiprotocol I/O module with the most common MIX of 18 inputs and outputs in building automation. Equipped with IP connectivity, and built-in Modbus TCP/IP to Modbus RTU/ASCII gateway.
iSMA-B-MIX38-IP	Multiprotocol I/O module with the most common MIX of 38 inputs and outputs in building automation. Equipped with IP connectivity, and built-in Modbus TCP/IP to Modbus RTU/ASCII gateway.

**MIX Series I/O Modules with RS485**

Product Code	Description
iSMA-B-MIX18	Multiprotocol I/O module with the most common MIX of 18 inputs and outputs in building automation
iSMA-B-MIX38	Multiprotocol I/O module with the most common MIX of 38 inputs and outputs in building automation

**MAX Series I/O Modules with RS485 and IP**

Product Code	Description
iSMA-B-24I-IP	Multiprotocol I/O module with 24 digital inputs, IP connectivity, and built-in Modbus TCP/IP to Modbus RTU/ASCII gateway
iSMA-B-12O-H-IP	Multiprotocol I/O module with 12 digital outputs, HOA switches, IP connectivity, and built-in Modbus TCP/IP to Modbus RTU/ASCII gateway

**MAX Series I/O Modules with RS485**

Product Code	Description
iSMA-B-24I	Multiprotocol I/O module with 24 digital inputs
iSMA-B-12O-H	Multiprotocol I/O module with 12 digital outputs and HOA switches

**MINI Series I/O Modules with RS485 and IP**

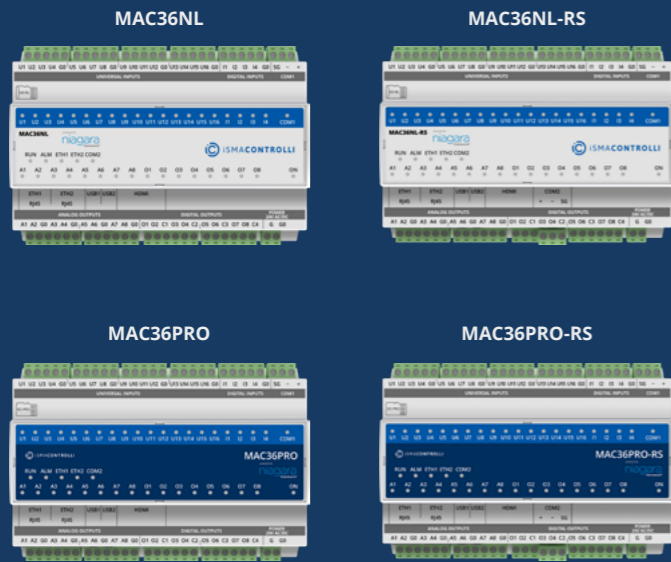
Product Code	Description
iSMA-B-8I-IP	Multiprotocol I/O module with 8 universal inputs, IP connectivity, and built-in Modbus TCP/IP to Modbus RTU/ASCII gateway.
iSMA-B-8U-IP	Multiprotocol I/O module with 4 digital inputs, 4 digital outputs, HOA switches, IP connectivity, and built-in Modbus TCP/IP to Modbus RTU/ASCII gateway. Built-in lighting applications.
iSMA-B-4I4O-H-IP	Multiprotocol I/O module with 4 universal inputs, 4 digital outputs, HOA switches, IP connectivity, and built-in Modbus TCP/IP to Modbus RTU/ASCII gateway built-in HVAC and lighting applications.
iSMA-B-4U4O-H-IP	Multiprotocol I/O module with 4 universal inputs, 4 analog outputs, hand output control, IP connectivity, and built-in Modbus TCP/IP to Modbus RTU/ASCII gateway.
iSMA-B-4U4A-H-IP	Multiprotocol I/O module with 4 universal inputs, 4 analog outputs, hand output control, IP connectivity, and built-in Modbus TCP/IP to Modbus RTU/ASCII gateway.
iSMA-B-4O-H-IP	Multiprotocol I/O module with 4 digital outputs, HOA switches, IP connectivity, and built-in Modbus TCP/IP to Modbus RTU/ASCII gateway. <b>Designed for higher loads switching and lighting control.</b>
iSMA-B-4TO-H-IP	Multiprotocol I/O module with 4 triac outputs, HOA switches, IP connectivity, and built-in Modbus TCP/IP to Modbus RTU/ASCII gateway.

**MINI Series I/O Modules with RS485**

Product Code	Description
iSMA-B-8I	Multiprotocol I/O module with 8 digital inputs
iSMA-B-8U	Multiprotocol I/O module with 8 universal inputs
iSMA-B-4I4O-H	Multiprotocol I/O module with 4 digital inputs and 4 digital outputs, HOA switches, and built-in lighting applications
iSMA-B-4U4O-H	Multiprotocol I/O module with 4 universal inputs, 4 digital outputs, HOA switches, and built-in HVAC and lighting applications
iSMA-B-4U4A-H	Multiprotocol I/O module with 4 universal inputs, 4 analog outputs, hand output control
iSMA-B-4O-H	Multiprotocol I/O module with 4 digital outputs and HOA switches. <b>Designed for higher loads switching and lighting control.</b>
iSMA-B-4TO-H	Multiprotocol I/O module with 4 triac outputs and HOA switches

Small and Medium BMS

MAC Controllers



Integration Controllers



Industrial LCD Panel



Multiprotocol I/O Modules

MIX IP I/O Modules



MIX RS485 I/O Modules



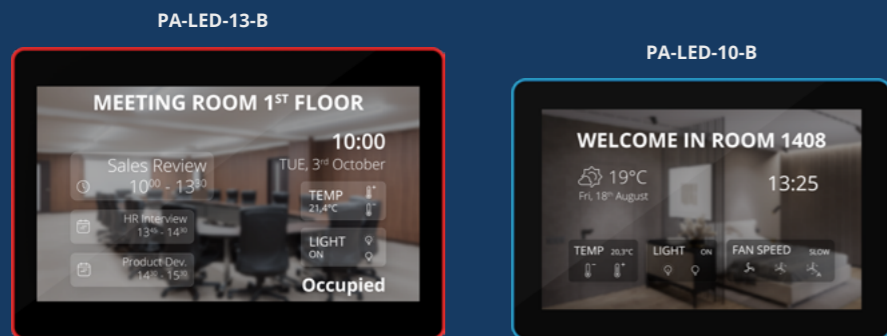
MAX IP I/O Modules



MAX RS485 I/O Modules



HMI Panels



MINI IP I/O Modules



MINI RS485 I/O Modules







SIMPLICITY IN  
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