EcoStruxure™
Innovation At Every Level

# SpaceLogic Automation Server V3 - Premium

# Servers

## EcoStruxure™ Building

## Introduction

At the core of an EcoStruxure BMS is an automation server, such as SpaceLogic™ Automation Server V3 - Premium (AS-P-3). The AS-P-3 server performs key functionality, such as control logic, trend logging, and alarm supervision, and supports communication and connectivity to the I/O and field buses. The distributed intelligence of the EcoStruxure BMS helps ensure fault tolerance for detected errors and provides a fully featured user interface through WorkStation and WebStation.

## Features

The AS-P-3 server is a powerful device with built-in power supply that can act as a standalone server and also control Central IO modules and monitor and manage field bus devices. In a small installation, the embedded AS-P-3 server acts as a standalone server, mounted with its Central IO modules in a small footprint. In medium and large installations, functionality is distributed over multiple automation servers that communicate over TCP/IP.

AS-P-3 is a one-piece automation server and power supply unit, without terminal bases, for DIN-rail mounting. AS-P-3 is the successor to AS-P. Compared to AS-P, it provides an additional 1 Gbit/s Ethernet port, two fully configurable 10/100 Mbit/s Ethernet ports, an additional configurable RS-485 port, two USB 3.0 host ports, and significantly more memory and power. When replacing an AS-P server, the AS-P-3 server can replace both the AS-P server and the PS-24V module, and it matches the combined size of these two devices.

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The AS-P-3 server has the following features:

- Communications hub
- Built-in isolated power supply
- Variety of connectivity options
- Zigbee wireless network support
- Authentication and permissions through powerful systems
- WorkStation/WebStation interface
- Native BTL-listed BACnet support
- BACnet/SC node, hub, or router
- Native OPC UA support
- Native Modbus support
- Native LonWorks support (Only AS-P-L-3)
- ION protocol support
- Additional building protocol support
- Web Services support based open standards
- EcoStruxure Web Services support
- MQTT IoT protocol support
- External log storage option
- AVEVA PI System support
- Meter management
- Tenant billing option
- Normalization and signatures
- Change control
- Reporting
- Scalable custom configurations
- I/O expansion option
- Text and graphics-based programming tools
- eMMC memory for data and backup
- IT friendly networking based on the TCP/IP suite of communication protocols
- TLS support
- IEEE 802.1X support
- Auto-addressing of Central IO modules
- Simple DIN-rail installation
- Removable terminal blocks
- Secure boot

## Communications hub

Capable of coordinating traffic from above and below its location, the AS-P-3 server can deliver data directly to you or to other servers throughout the site. The AS-P-3 server can run multiple control programs, manage local I/O, alarms, and users, handle scheduling and logging, and communicate using a variety of protocols. Because of this, most parts of the system function autonomously and continue to run as a whole even if communication is interrupted or individual EcoStruxure BMS servers or devices go offline.

## Built-in power supply

The device has a built-in power supply designed to accommodate 24 VAC or 24 VDC input power. The main AC/DC input (L/+ and N/-) is galvanically isolated from the electronics. This helps reduce the risk of damage due to earth currents and permits the input power to be wired without concern for AC polarity matching.

## Variety of connectivity options

An AS-P-3 server has numerous ports that enable it to communicate with a wide range of protocols, devices, and servers.

An AS-P-3 server has the following ports:

- One 10/100/1000 Ethernet port
- Two 10/100 Ethernet ports
- Three RS-485 ports*
- One built-in I/O bus port
- One USB device port (USB 3.0, type-C)
- Two USB host ports (one USB 3.0 or both USB 2.0, type-A)
- One LonWorks TP/FT port*

* AS-P-L-3 only has two RS-485 ports. LonWorks TP/FT port is only available on AS-P-L-3.

The three Ethernet ports support flexible network configurations to suit a variety of deployment scenarios. Port 1 is always connected to the site network (WAN). Ports 2 and 3 are configurable and can be enabled or disabled to strengthen access control. When enabled, they can be assigned to either the site network or private IP networks, and may operate independently or as part of a bridged configuration. The device supports seven network modes, including single-port operation, dual and triple network separation, and various bridged setups for site and private networks. When ports 2 and 3 are bridged as a single private network, the AS-P-3 server enables Rapid Spanning Tree Protocol (RSTP) to support ring topology for connected devices.

Each RS-485 port can be configured to support one of the following serial communication protocols: Modbus RTU, Modbus ASCII, or BACnet MS/TP.

The USB device port allows you to upgrade and interact with the AS-P-3 server using Device Administrator.

Using a USB Ethernet adapter, you can connect a laptop PC to the USB host port and run Device Administrator, WorkStation,

and WebStation to upgrade, configure, and access the AS-P-3 server. The USB host port can also be used to provide power and communications for Wireless Adapter - Advanced. Either of the two USB host ports can use USB 3.0 or both ports can use USB 2.0.

## Zigbee wireless network support

Through Wireless Adapter - Advanced connected to the host USB port, Zigbee™ wireless connectivity can be enabled for the automation server. The automation server can extend its point count through the Zigbee wireless network and bring flexibility in your applications. The automation server equipped with the adapter is together a Zigbee Certified Product that is compliant with Zigbee 3.0. For more information on the adapter and supported wireless devices, see the Wireless Adapter - Advanced Specification Sheet.

## Authentication and permissions

An EcoStruxure BMS provides a powerful permission system that is easy to manage, flexible, and adapts to all kinds of system sizes. The permission system provides a high standard of authentication. Authentication is done against the built-in user account management system or a SAML 2.0 identity provider. If used with Enterprise Server for Windows, authentication can be done against Windows Active Directory. The built-in account management system allows an administrator to establish password policies that meet stringent cybersecurity guidelines. In addition, multi-factor authentication (MFA) according to RFC 6238 is supported and enforceable. Applications such as Google Authenticator and Microsoft Authenticator can be used as part of the user authentication. When Windows Active Directory or SAML 2.0 authentication is used, the administration costs are lower because users do not have to be managed in multiple directories.

## WorkStation/WebStation interface

Through any client, the user experience is similar regardless of which EcoStruxure BMS server the user is logged on to. The user can log directly on to the AS-P-3 server to engineer, commission, supervise, and monitor the AS-P-3 server as well as its attached Central IO modules and field bus devices. See the WorkStation and WebStation specification sheets for additional information.

## Open building protocol support

One of the cornerstones of the EcoStruxure BMS is support for open standards. The AS-P-3 server can natively communicate with some of the most popular standards for buildings: BACnet (including BACnet/SC), OPC UA, Modbus, and LonWorks.

## Native BTL-listed BACnet support

An AS-P-3 server communicates directly to BACnet/IP and BACnet MS/TP networks. The AS-P-3 servers are BTL-listed as a BACnet Building Controller (B-BC) and a BACnet Advanced Operator Workstation (B-AWS). These capabilities provide access to an extensive range of BACnet devices from Schneider Electric and other vendors. See the BTL Product Catalog for up-to-date details on BTL listed firmware revisions on BACnet International's home page. An AS-P-3 server can also serve as a BACnet Broadcast Management Device (BBMD) to facilitate BACnet systems that span multiple IP subnets.

## BACnet/SC (Secure Connect) support

The Enterprise Server and automation servers support BACnet/SC applications as a BACnet/SC node, hub, and router. This allows the Enterprise Server and automation servers to be in BACnet/SC networks and support applications that connect BACnet/IP or MS/TP networks with BACnet/SC networks. A major benefit of BACnet/SC is that it allows encrypted transport of BACnet traffic and information between BACnet/SC devices over private and public networks without the need for BBMDs, VLANs, and VPNs, because the BACnet/SC protocol uses WebSocket technology and TLS 1.3 encryption. In addition, BACnet/SC uses certificate management to help ensure only those devices authorized to be on a BACnet/SC network can operate on that network.

## Native OPC UA support

Enterprise Server and field servers natively support both OPC UA Client and Server functionality, enabling high-capacity integration with devices and systems that implement OPC Unified Architecture (OPC UA). OPC UA is a widely adopted standard that provides authentication and encryption features, along with performance and engineering efficiency benefits. The OPC UA Client support allows the EcoStruxure BMS software to monitor and control a wide variety of external systems, from Schneider Electric as well as from other companies. The OPC UA Server support enables the Enterprise Server and field servers to expose their own data and services to other OPC UA Clients.

## Native Modbus support

The Enterprise Server and automation servers natively integrate Modbus RS-485 client and server configurations, as well as Modbus TCP client and server. This allows full access to third-party products and the range of Schneider Electric products that communicate on the Modbus protocol, such as power meters, UPS, circuit breakers, and lighting controllers.

Modbus device types are pre-configured Modbus applications for quick and easy Modbus device integration in EcoStruxure BMS solutions. For information on the Modbus devices supported using Modbus device types, see the document EcoStruxure Building - Modbus Device Integration - Supported Device Brochure.

## Native LonWorks support

The AS-P-L-3 server model has a built-in FTT-10 port to communicate to the TP/FT-10 LonWorks network. Integrated LonWorks functionality enables access to LonWorks devices from Schneider Electric and other vendors. LonWorks networks can be commissioned, bound, and configured from AS-P-L-3 using the built-in LonWorks Network Management Tool. No third-party tools are needed. A protocol analyzer with powerful

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debugging and network quality monitoring features can be achieved using third-party software, without additional hardware needed. To increase ease of use, LNS device plug-ins are supported. This allows for easier engineering and maintenance of LonWorks devices from Schneider Electric and other vendors. There are some limitations on how LNS device plug-ins can be used.

Only AS-P-L-3 supports LonWorks.

## ION protocol support

Native ION protocol support enables real-time read, write, and subscription of data points. This facilitates integration with Schneider Electric meters such as PowerLogic ION9000, ION8650, and ION7400.

Subject to license availability.

## Additional building protocol support

The AS-P-3 server also supports integration and communication with Schneider Electric supplied BMS systems and devices that use the following standards for buildings: I/NET and NETWORK 8000 (only ASD devices supported).

## Web Services support

The AS-P-3 server supports the use of Web Services based on open standards, such as SOAP and REST, to consume data into the EcoStruxure BMS. Use incoming third-party data (temperature forecast, energy cost) over the Web to determine site modes, scheduling, and programming.

## EcoStruxure Web Services support

EcoStruxure Web Services, Schneider Electric's Web Services standard, is natively supported in the EcoStruxure BMS servers. EcoStruxure Web Services offers extra features between compliant systems whether within Schneider Electric or other authorized systems. These features include system directory browsing, read/write of current values, alarm receipt and acknowledgement, and historical trend log data. EcoStruxure Web Services requires user name and password to log on to the system.

## MQTT IoT protocol support

The Enterprise Server and field servers support MQTT as an option for publishing data to, and receiving updates from, other systems. MQTT is a messaging transport protocol that with its small footprint, light bandwidth utilization, and simplicity, is ideal for M2M and IoT communication. The MQTT capability supports communication with any MQTT broker, for example, Amazon, Microsoft, Google or IBM.

## External log storage option

EcoStruxure BMS servers can be configured to automatically store all historical data, trend log data, event log and audit trail data, in an external database. If data needs to be available for longer periods of time, an external log storage can be incorporated into the EcoStruxure BMS without the need for extensive engineering work. The supported databases are TimescaleDB, which is built on PostgreSQL, and Microsoft SQL Server. The data in the external log storage is available natively to the viewers built into the EcoStruxure BMS clients and to the built-in reporting functionality.

You can use the powerful Log Processor functionality for custom processing of trend data for viewing in charts, dashboards and for inclusion in reports. The Log Processor enables advanced calculations on one or multiple trend logs and point values.

Examples of advanced calculations:

- Energy usage normalization
- Virtual submeters and summaries
- Calculation of Mean Kinetic Temperature
- Unit conversions
- Average, maximum, and minimum over custom periods

The output of the Log Processor can be saved in the database, including the External Log Storage or calculated automatically on demand.

## AVEVA PI System support

Selected trend logs and the event log can be sent to AVEVA PI System directly without the need for intermediate storage or specialized PI System connectors. The EcoStruxure BMS server can also be the front-end client to AVEVA PI System and obtain data from the PI System that can be included in reports, graphics, and dashboards.

## Meter management

With the meter management functionality, EcoStruxure Building Operation offers improved methods to support data accuracy and automatic detection of meter changes. In addition, purpose-built functions enable easier handling of the following concepts:

- Aggregations
- Virtual metering
- Apportioned metering
- Unit conversions

Meter hierarchies enable powerful visualization of sub-meter structures or categorizations. A web-based editor with intelligent help functions enables efficient construction of meter hierarchies.

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## Tenant billing option

The tenant billing feature adds cost calculation capabilities to the meter management function by converting measured usage into charges. Supported cost components include:

- Single fee rate
- Flat rate
- Daily rate
- Time-of-use rate
- Tax rate

Bills are defined through bill definitions and can be generated using the integrated reporting functionality for distribution to tenants.

Subject to license availability.

## Normalization and signatures

The normalization functions help with benchmarking, and the signature function enables automation and/or alerting when resource usage is too high or low. This enables early detection of non-operational equipment and misused building functions, resulting in energy savings and higher occupant satisfaction.

The system includes easy-to-use tools for regression analysis and powerful methods for time-period classification, that is, differentiation of workdays versus holidays.

## Change control

Using the built-in security-related configuration features within the EcoStruxure BMS software, you can comply with regulations related to restricting access to authorized and qualified individuals and with full audit trail. In addition, access-related settings can be further configured to apply restrictions based on time of day or geographic location.

The change control features extend the basic activity logging provided by the EcoStruxure BMS software by enhancing the functionality of the standard log, enabling efficient and fully configurable change control with the following features:

- Single or dual electronic signature application
- Change control that can be restricted only to specific objects in the system
- Change control that can easily be applied to all objects
- Every associated action is logged with the parameter that was changed
- Before and after parameter values including meta data

For each signature event, the change control signatures contain:

- The unique identifier of the person executing the signature
- The full name of the user who performed the action
- The geographical date and time stamp
- The meaning of the signature, such as approval, review, responsibility, and authorship

## Reporting

The EcoStruxure BMS servers provide built-in functionality for basic reporting that can deliver reports in any text format and XLSX, without any dependencies to other external software. Reports for XLSX can be enriched by using advanced functionality such as formulas, conditional formatting, charts and sparklines.

Reports can be generated on schedule, on an alarm event or other custom conditions, and you can get the output delivered via email or written to file.

## Scalable custom configurations

The AS-P-3 server and its family of Central IO modules were designed to meet the unique needs of each installation. Depending on the configuration, each AS-P-3 server can control up to 464 I/O points. Because power and communications are delivered along a common bus, multiple modules can be plugged together without tools in a simple one-step process using the built-in connectors.

## I/O expansion

For applications that require remote I/O resources, the SpaceLogic IP-IO modules provide a versatile mix of I/O points for any application. For more information, see the SpaceLogic IP-IO Specification Sheet.

## Text and graphics-based programming tools

Unique to the industry, the EcoStruxure BMS servers have both Script and Function Block programming options. This flexibility helps assure that a suitable programming method can be selected for the application.

## eMMC memory for data and backup

The automation server has a 32 GB eMMC memory, which is used, for example, for the application, historical data, and backup storage. Users can also manually back up or restore the automation server to a storage location on a PC or network. Through the Enterprise Server, users have the ability to perform scheduled backups of associated automation servers to network storage for even greater levels of protection.

## IT friendly

The EcoStruxure BMS servers communicate using the networking standards. This makes installations easy, management simple, and transactions encrypted for protection.

## Supported protocols

- IP addressing
- TCP communications

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- DHCP for easy network configuration
- DNS for simple lookup of addresses
- HTTP/HTTPS for Internet access through firewalls, which enables remote monitoring and control
- NTP (Network Time Protocol) for time synchronization throughout the system
- SMTP or SMTPS with support for SSL/TLS based authentication, enables sending email messages triggered by schedule or alarm
- SNMP enables network supervision and reception of application alarms in designated network management tools
- WebSocket Secure (WSS) and TLS 1.3 encryption (BACnet/SC applications)

### TLS support

Communication between clients and the EcoStruxure BMS servers, and between EcoStruxure BMS servers, can be encrypted using Transport Layer Security (TLS). The servers are delivered with a default self-signed certificate. Commercial Certification Authority (CA) server certificates are supported to lower the risk of malicious information technology attacks. Use of encrypted communication can be enforced for both WorkStation and WebStation access.

### IEEE 802.1X support

The automation server supports IEEE 802.1X authentication, including MD5, EAP-TLS, and PEAP-MSCHAPv2.

### Auto-addressing of Central IO modules

The auto-addressing feature automatically assigns device addresses without the need to set DIP switches or press commission buttons. Each device automatically knows its order in the chain and assigns itself accordingly – significantly reducing engineering and maintenance time.

### Simple DIN-rail installation

Fasteners easily snap into a locked position for panel installation. The fastener has a quick-release feature for easy DIN-rail removal.

### Removable terminal blocks

AS-P-3 servers use pluggable terminal blocks, which are easy to install and remove from the device. The terminal blocks are delivered with the device.

### Secure boot

Secure boot is a security standard to help ensure that a device boots using only software that is trusted by Schneider Electric.

Secure boot is supported by all AS-P-3 and AS-P-L-3 server models.

## Hardware Part Numbers

For information on the hardware part numbers for the AS-P-3 products and accessories, see the following tables.

The automation server hardware is delivered without any pre-installed software, so the appropriate software license must be selected and purchased separately, as described in section “Software Licensing Model”.

### Part Numbers for AS-P-3 Hardware

| Hardware Product | Part Number |
|---|---|
| SpaceLogic AS-P-3 | SXWASP3XX10001 |
| SpaceLogic AS-P-L-3 | SXWASPL3X10001 |

### Part Numbers for AS-P-3 Spare Parts

| Hardware Product | Part Number |
|---|---|
| AS-P-3-CON (Connector kit) | SXWASPCON10002 |

### Part Numbers for AS-P-3 Hardware Accessories

| Hardware Product | Part Number |
|---|---|
| SpaceLogic Wireless Adapter - Advanced | SXWZBAUSB10001 |

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## Software Licensing Model

EcoStruxure BMS software version 7.0 offers a simplified and centralized licensing model which allows for one-time, single-step activation of a system license deployed at the top level server of the system, thus removing the need for license engineering on each server in the system. This provides considerable time savings during the initial commissioning as well as during any future upgrade of the system.

System capabilities are available in a three-tier model: Essential, Advanced, and Advanced Plus. Select the tier that matches your business needs, and everything will then be bundled into the centralized system license and inherited across all servers in your system architecture, including Enterprise Central, Enterprise Server, and field servers.

The centralized licensing model combined with the three-tier capability model provides a uniquely easy-to-manage system throughout the lifecycle. Among other benefits, this gives the ability to remotely manage the capability tier as business needs evolve and to facilitate expansion as the system grows with added servers and connected devices.

Configuration of software licenses is done through EcoStruxure Power & Building Software Companion, accessible by EcoXpert™ partners and Schneider Electric representatives. It provides the ability to select architecture and tier options as well as manage license evolutions throughout the lifecycle of the system.

For more information on the three-tier system capabilities, see the Schneider Electric website, www.se.com.

## Specifications

| SpaceLogic Automation Server V3 - Premium | |
|---|---|
| **AC input** | |
| Type | Isolated Class 2 input |
| Nominal voltage | 24 VAC |
| Operating voltage range | +/- 20 % |
| Frequency | 50/60 Hz |
| Maximum current | 2.5 A rms |
| Recommended transformer rating | 60 VA or higher |
| Power input protection | MOV suppression and internal fuse |
| **DC input** | |
| Nominal voltage | 24 to 30 VDC |
| Operating voltage range | 21 to 33 VDC |
| Maximum power consumption | 40 W |
| **DC output** | |
| Voltage | 24 VDC |
| Accuracy | +/-1 VDC |
| Maximum power | 20 W |
| **Environment** | |
| **AS-P-3** | |
| Ambient temperature, operating | 0 to 55 °C (32 to 131 °F) |
| Ambient temperature, storage | -20 to +70 °C (-4 to +158 °F) |
| Maximum humidity | 95 % RH non-condensing |

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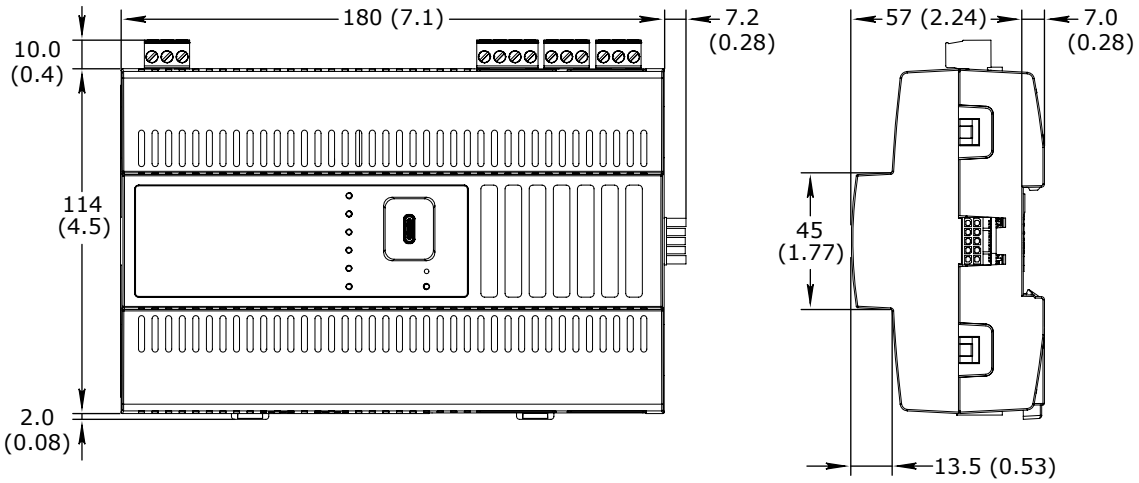
| AS-P-L-3 | |
|---|---|
| Ambient temperature, operating | 0 to 50 °C (32 to 122 °F) |
| Ambient temperature, storage | -20 to +70 °C (-4 to +158 °F) |
| Maximum humidity | 95 % RH non-condensing |
| **Material** | |
| Plastic flame rating | UL94 V-0 |
| Ingress protection rating | IP 20 |
| **Mechanical** | |
| Dimensions | 180 W x 114 H x 64 D mm (7.1 W x 4.5 H x 2.5 D in.) |

mm (inches)




| | |
|---|---|
| Weight, including terminal blocks | 0.571 kg (1.26 lb) |
| Weight, excluding terminal blocks | 0.550 kg (1.21 lb) |
| **Compatibility** | |
| EcoStruxure BMS server communication<br>EcoStruxure Building Operation | version 7.0.3 and later |
| **Agency compliances** | |
| Emission | RCM; BS/EN IEC 61000-6-4; BS/EN IEC 63044-5-3; FCC Part 15, Sub-part B, Class A; CAN ICES-003(A) |
| Immunity | BS/EN IEC 61000-6-2; BS/EN IEC 63044-5-2; BS/EN IEC 63044-5-3 |
| Safety standards | BS/EN IEC 60730-1; BS/EN IEC 60730-2-11; BS/EN IEC 63044-3; UL 916 C-UL US Listed |
| Product | BS/EN IEC 63044-1 |
| **Real-time clock** | |
| Accuracy in runtime mode | NTP server |
| Accuracy in backup mode, at 25 °C (77 °F) | +/-52 seconds per month |
| Backup time, at 25 °C (77 °F) | 10 days |

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| Communication ports | |
|---|---|
| **AS-P-3** | |
| Ethernet | Single 10/100/1000BASE-TX (RJ45), IEEE 802.3 compliant<br>Dual 10/100BASE-TX (RJ45), IEEE 802.3 compliant |
| USB Device | 1 USB 3.0 device port (type-C) |
| USB Host | 2 USB host ports (type-A), USB 3.0 or 2.0<br>USB 3.0: 5 VDC, 0.9 A from either port 1 or 2<br>USB 2.0: 5 VDC, 0.5 A from both port 1 and 2 |
| RS-485 | Triple 2-wire ports, bias 5.0 VDC |
| **AS-P-L-3** | |
| Ethernet | Single 10/100/1000BASE-TX (RJ45), IEEE 802.3 compliant<br>Dual 10/100BASE-TX (RJ45), IEEE 802.3 compliant |
| USB Device | 1 USB 3.0 device port (type-C) |
| USB Host | 2 USB host ports (type-A), USB 3.0 or 2.0<br>USB 3.0: 5 VDC, 0.9 A from either port 1 or 2<br>USB 2.0: 5 VDC, 0.5 A from both port 1 and 2 |
| RS-485 | Dual 2-wire ports, bias 5.0 VDC |
| LonWorks[a] | TP/FT-10 |

a) Only AS-P-L-3 supports LonWorks.

| Communications | |
|---|---|
| BACnet | BACnet/IP, port configurable, default 47808<br>BACnet/SC, port configurable, no default port |
| BACnet profile | BACnet Advanced Operator Workstation (B-AWS)<br>BACnet Building Controller (B-BC)<br>BACnet Secure Connect Hub (B-SCHUB)<br>AMEV AS-B |
| BACnet certification | BTL Certification (BTL Listing[a], WSPCert) |

a) See the BTL Product Catalog for up-to-date details on BTL listed firmware revisions on BACnet International's homepage.

| | |
|---|---|
| OPC UA Client<br>Profile group UACore 1.03 | Core Client Facet, Base Client Behaviour Facet[a], AddressSpace Lookup Client Facet, Attribute Read Client Facet[a], Attribute Write Client Facet[a], DataChange Subscriber Client Facet[a], Method Client Facet, UA-TCP UA-SC UA-Binary, SecurityPolicy – Basic256, SecurityPolicy – Basic256Sha256, User Token – Anonymous Facet, User Token – User Name Password Client Facet, DataAccess Client Facet, Base Event Processing Client Facet, Historical Access Client Facet, A & C Alarm Client Facet, and A & C Address Space Instance Client Facet. |

a) Partly supported. See technical literature for more information.

| | |
|---|---|
| OPC UA Server<br>Profile group UACore 1.04 | Core 2022 Server Facet[a], User Token – User Name Password Server Facet, SecurityPolicy – None, SecurityPolicy [B] – Basic256Sha256, UA-TCP UA-SC UA-Binary. |

a) “View TranslateBrowsePath” is not supported. See technical literature for more information.

| | |
|---|---|
| Modbus | Modbus TCP, client and server<br>Modbus RTU and ASCII, RS-485, client and server |
| ION | ION TCP, port configurable, default 7700 |
| MQTT | MQTT over TLS, port configurable, default 8883<br>MQTT over TCP, port configurable, default 1883<br>MQTT over WebSocket Secure (WSS), port configurable, default 443<br>MQTT over WebSocket (WS), port configurable, default 80 |

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| | |
|---|---|
| TCP | Binary, port fixed, 4444 |
| HTTP | Non-binary, port configurable, default 80 |
| HTTPS<br>a) Disabled by default. | Encrypted supporting TLS 1.3, 1.2, 1.1[a], and 1.0[a], port configurable default 443 |
| WSS[a]<br>a) BACnet/SC applications | Encrypted supporting TLS 1.3, port configurable |
| SMTP | Email sending, port configurable, default 25 |
| SMTPS | Email sending, port configurable, default 587 |
| SNMP | version 3<br>Network supervision using poll and trap<br>Application alarm distribution using trap |
| **LNS** | |
| LNS version | OpenLNS<br>Installed on WorkStation PC |
| **LonMark** | |
| Resource files version | 14.00 |
| **CPU** | |
| Frequency | 2 GHz |
| Type | ARM Cortex-A72 dual-core |
| LPDDR4 | 2 GB |
| eMMC memory | 32 GB |
| Memory backup | Yes, battery-free, no maintenance |
| **Software requirements** | |
| External log storage PostgreSQL option | Supported versions of PostgreSQL (www.postgresql.org) with matching version of TimescaleDB extension (www.timescale.com).<br>Note: To use compression for trend data, TimescaleDB 2.11 or later is required. |
| Quality assurance testing has been performed by Schneider Electric with TimescaleDB and PostgreSQL installed natively in Windows 11, Windows Server 2016, 2019, 2022, and 2025. Other deployment scenarios have not been tested by Schneider Electric. | |
| External log storage Microsoft SQL option | Microsoft SQL Server versions under full support by Microsoft (www.microsoft.com).<br>The following Microsoft SQL Server editions are supported: Enterprise, Standard, and Express. |
| External log storage AVEVA PI System option | PI Web API 2021 SP3 and database compatible with that version |
| Quality assurance testing has been performed by Schneider Electric with PI Web API 2021 SP3, and database compatible with that version, installed on Windows Server 2019. Other deployment scenarios have not been tested by Schneider Electric. | |

## Terminals

For more information on wiring, see the SpaceLogic and EasyLogic - Hardware Installation System Guide.

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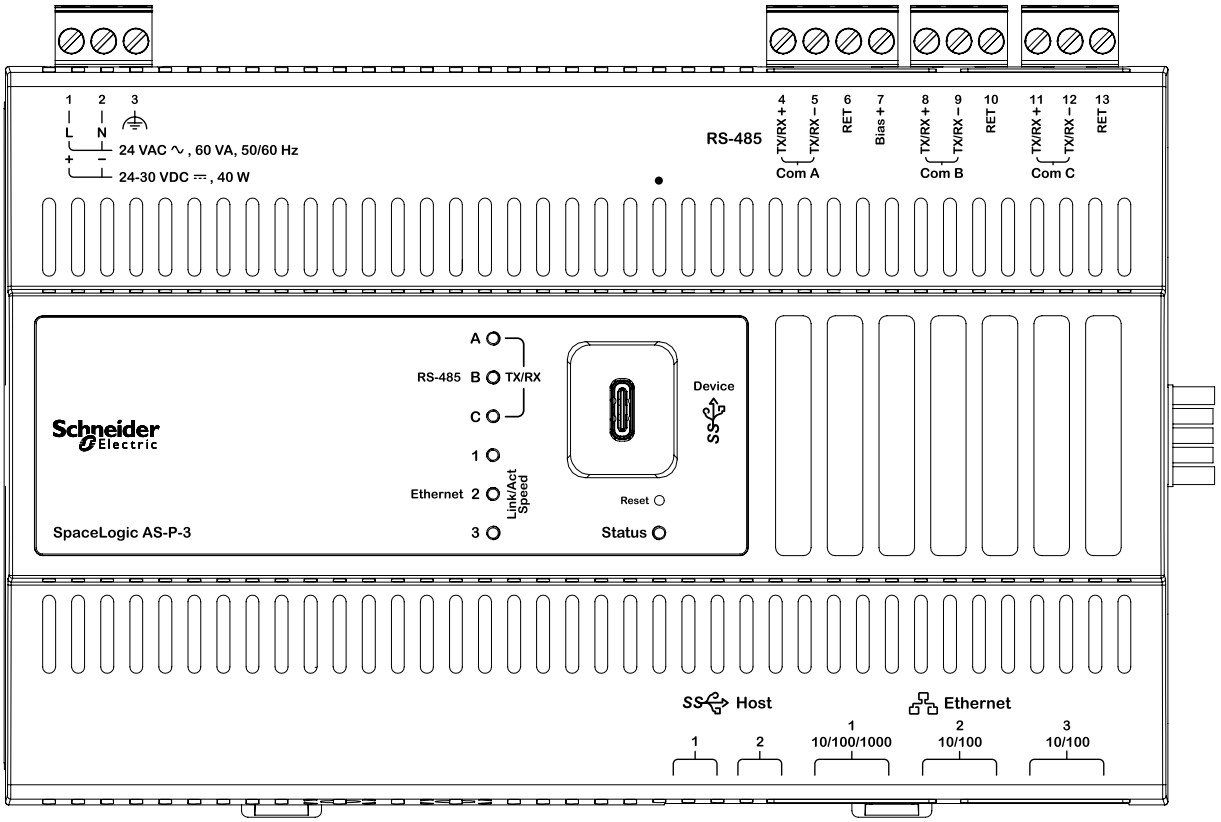
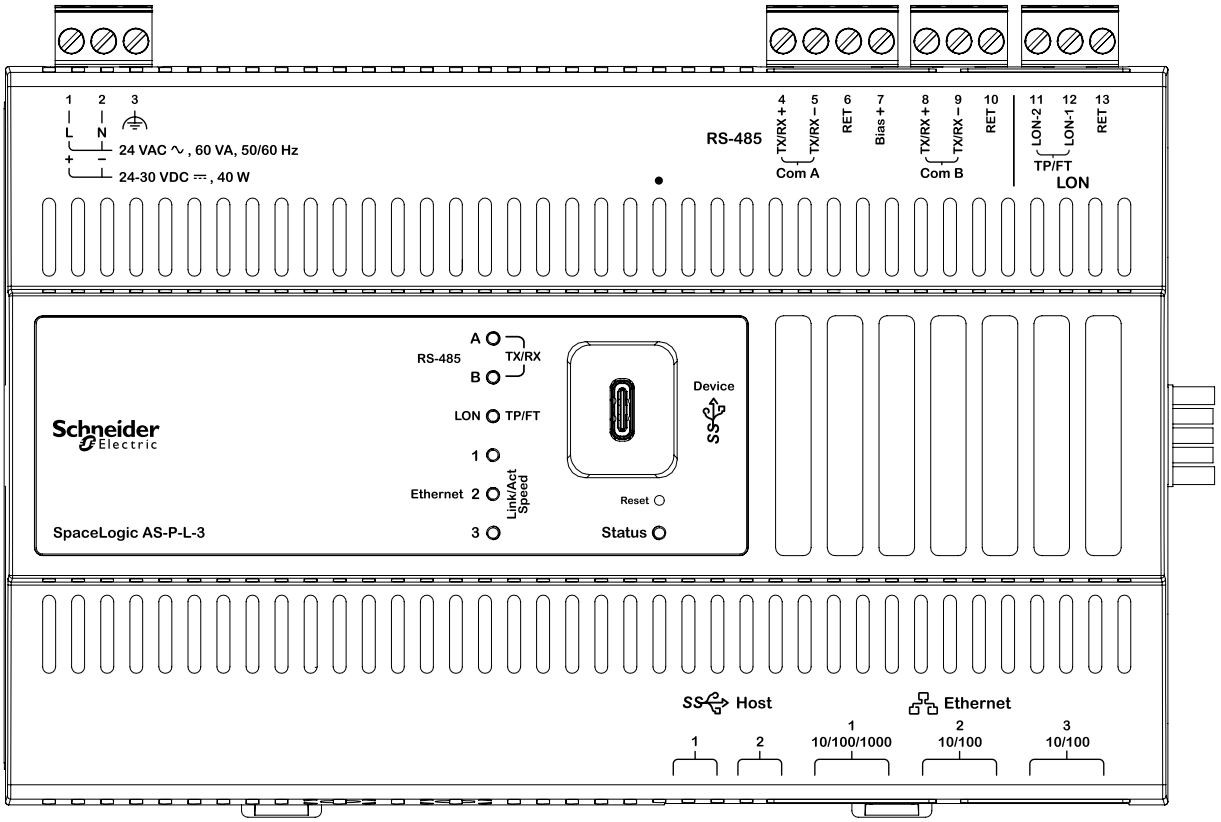



SpaceLogic AS-P-3

# SpaceLogic Automation Server V3 - Premium




SpaceLogic AS-P-L-3 (with LonWorks support)

# SpaceLogic Automation Server V3 - Premium

## Regulatory Notices

**Federal Communications Commission**
FCC Rules and Regulations CFR 47, Part 15, Class A
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.
**Industry Canada**
This Class A digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

**Regulatory Compliance Mark (RCM) - Australian Communications and Media Authority (ACMA)**
This equipment complies with the requirements of the relevant ACMA standards made under the Radiocommunications Act 1992 and the Telecommunications Act 1997. These standards are referenced in notices made under section 182 of the Radiocommunications Act and 407 of the Telecommunications Act.

**UK Conformity Assessed**
S.I. 2016/1091 - Electromagnetic Compatibility Regulations 2016
S.I. 2012/3032 - Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
S.I. 2013/3113 - Waste Electrical and Electronic Equipment Regulations 2013
This equipment complies with the rules, of the UK regulations, for governing the UKCA Marking for the United Kingdom specified in the above directive(s).

**CE - Compliance to European Union (EU)**
2014/30/EU Electromagnetic Compatibility Directive
2011/65/EU Restriction of Hazardous Substances (RoHS) Directive
2015/863/EU amending Annex II to Directive 2011/65/EU
This equipment complies with the rules, of the Official Journal of the European Union, for governing the Self Declaration of the CE Marking for the European Union as specified in the above directive(s).

**WEEE - Directive of the European Union (EU)**
This equipment and its packaging carry the waste of electrical and electronic equipment (WEEE) label, in compliance with European Union (EU) Directive 2012/19/EU, governing the disposal and recycling of electrical and electronic equipment in the European community.

**UL 916 Listed products for the United States and Canada, Open Class Energy Management Equipment. UL file E80146.**

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