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Description

The Savant SmartControl 25 provides control, automation and expansion in a 1U-rack style enclosure.

The SmartControl 25 includes a blend of the most popular and common control formats —serial, infrared (IR), relay, general-purpose input/output (GPIO).

The SmartControl 25 offers the ability to control various devices, subsystems and services in multi-room environments, including flat panel displays, DVD players, AV receivers, set-top boxes, projectors, lights, thermostats, window treatments, security systems, and other equipment commonly deployed in residential and business installations.

The SmartControl 25 is available in two models:
- SSC-0025
- SSC-P025 with PoE+

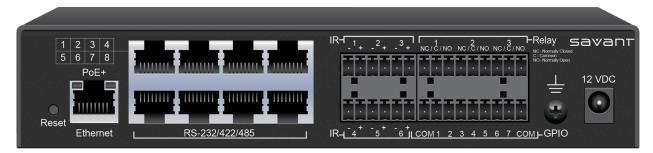The SSC-P025 supports being powered over Ethernet using the PoE+ IEEE 802.3at standard.

The SSC-0025/SSC-P025 can be linked to any Savant system containing a Savant Host (HST-XXXX or SVR-XXXX), providing cost-effective and scalable control.

Feature Summary

- Control Formats - Provides the control and automation features common in simple installations.

    (8) – RS-232/422/485 Serial ports

    (6) – IR Transmitter ports

    (3) – Relay Ports

    (7) – GPIO Ports

    (1) – Ethernet 10/100 base-T

- Cost-Effective Control and Scalability

- Supports Power over Ethernet using the IEEE 802.3at standard

- Use RacePoint Blueprint™ design tool to configure and customize SmartControl 25
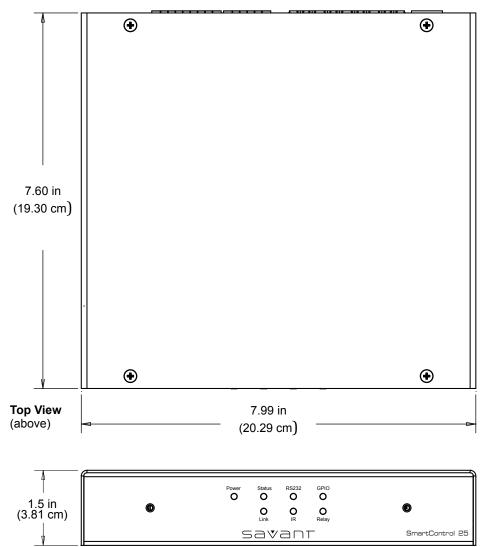

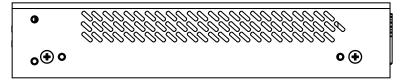**Front View of SSC-P025** (above)

Rear View of SSC-P025 (above)

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Dimensions

The next figures show the top, front and side dimensions of the SSC-P025.

7.60 in
(19.30 cm)

Top View
(above)

7.99 in
(20.29 cm)

1.5 in
(3.81 cm)

Power   Status   RS232   GPIO

Link   IR   Relay

savant   SmartControl 25

Front View (above)

Side View

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Specifications

Environmental	
Temperature	32° to 104° F (0° to 40° C)
Humidity	10% to 80% Relative Humidity (non-condensing)
Cooling	2 cubic feet per minute (CFM) recommended (3 CFM for SSC-P025)
Maximum BTUs	51 BTUs

Dimensions and Weight	
Height	1.5 in (3.81 cm)
Width	7.99 in (20.29 cm)
Depth	7.6 in (19.3 cm)
Weight	2.8 lb (1.3 kg)
Rack Space	1U

Power	
Optional Power Supply	12V DC 5.5 mm x 2.1 mm barrel power jack 100V-240V AC, 50/60 Hz
Nominal Power	7 watts
Maximum Power	15 watts
PoE+	RJ-45 10/100/1000 Base-T Power over Ethernet using the PoE+ IEEE 802.3at standard

Compliance	
Safety and Emissions	FCC Part 15 CE Mark C-Tick
RoHS	Compliant

Front LEDs
The seven LEDs on the front panel are used for diagnostic purposes. A description of the LEDs is available in the SSC-0025/SSC-P025 Quick Reference Guide.

Rear Panel Input/Output
See *Rear Panel Capabilities and Connectors* on page 5.

Enclosure
Metal enclosure, matte black with optional mounting brackets, vented sides. Mounting: Freestanding, surface mount or attach to a single rack rail.

Included Items

The individual components included with the SSC-P025 are outlined in the next table.

Description	Quantity
6-Pin Screw-Down Connector	2
9-Pin Screw-Down Connector	2
Quick Reference Guide	1

Required System Components

The system components required for use with the SSC-P025 are outlined in the next table.

Description	Model Number
Savant Host	HST-XXXX or SVR-XXXX
Ethernet Network	Enterprise-grade network deployment

Optional Accessories
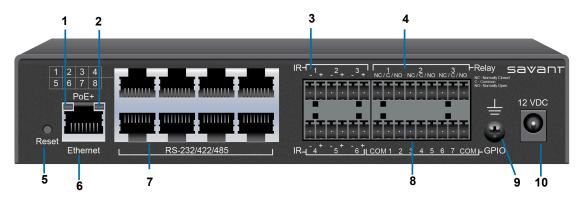
The optional accessories available for use with the SSC-P025 are outlined in the next table.

Description	Model Number
Side Mounting Bracket	SMB-1000
Rack Mounting Bracket	RMB-0025
IR emitters	IRB-1000
Infrared (IR) Emitters (10 pack)	IRB-1010
RS-232 Adapter Kit (5 pack)	SAK-1000
RJ-45 Serial Adapters Flow Null (10-pack)	CON-10FN
RJ-45 Serial Adapters Flow No Null (10-pack)	CON-10FNN
DB-9 Mini Gender Changer (10 pack)	CON-10GEN
RJ-45 Serial Adapters No Flow Null (10-pack)	CON-10NFN
RJ-45 Serial Adapters No Flow No Null (10-pack)	CON-10NFNN
9-pin Screw-Down Connector (25 pack)	CON-STC9
6-pin Screw-Down Connector (25 pack)	CON-STC6

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Rear Panel Capabilities and Connectors

The next figure shows the rear panel of an SSC-P025. The callouts on the figure are described in the next table.
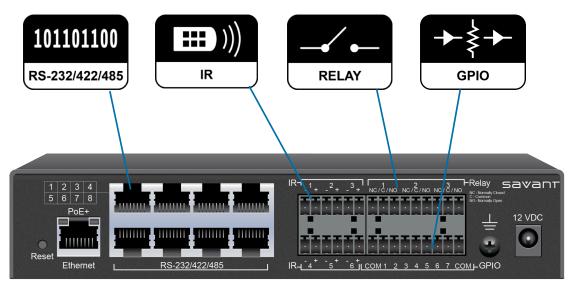

The next table describes the callouts in the previous figure.

Number	Item	Description
1	Link LED	Green indicates an Ethernet link has been established. Green flashing indicates Ethernet activity. Off indicates an Ethernet link has not been established.
2	Activity LED	Green indicates an Ethernet speed of 100 Mb. Off indicates an Ethernet speed of 10 Mb.
3	IR 1 - 6	Infrared transmitter ports use 6-pin screw-down connectors (3.81 mm).
4	Relay 1-3 NC/C/NO (Normally Closed/Common Normally Open)	These ports provide dry contacts (open/closed) to control devices requiring basic on/off operation. A single relay port can carry a maximum of 30V DC with a maximum current of 1.0 amps. Input from a device to the Savant Host is not supported through a relay.
5	Reset	Button used to reset the SSC-P025 to the factory default DHCP mode.
6	Ethernet	RJ-45 10/100 Base-T, auto-negotiating port. Supports Power over Ethernet using the PoE+ IEEE 802.3at standard.
7	RS-232 RS-422 RS-485	RJ-45 ports used to transmit and receive serial binary data transmission.
8	GPIO COM 1 – 7 COM	General Purpose Input Output ports use 9-pin screw-down connectors (3.81 mm). The digital GPIO ports are binary I/O ports used for output or input. Each GPIO is individually configured as an input or output trigger. All seven GPIO pins use the COM pins for common ground (at each end of the GPIO block).
	GPIO inputs	When configured as an input, the GPIO port detects a voltage present (GPIO input). GPIO inputs can safely detect the presence of a voltage of 0-30V DC with a threshold of 2.4V DC.
	GPIO outputs	When configured as an output, a GPIO port outputs a voltage of 12V DC. The maximum current per port is 150 milliamps. The combined maximum current for all GPIO outputs is 550 milliamps.
9	Ground Connector	Connect this terminal to a suitable ground reference when using Power over Ethernet.
10	12V DC	Provides optional 12V-DC input power for the SSC-P025 when PoE+ is not available.

Devices Supported by SSC-P025

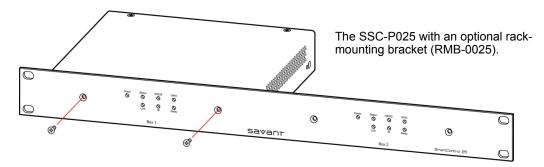The next figure shows a rear view of the SSC-P025.

The next table describes the typical uses associated with the ports on the SSC-P025.
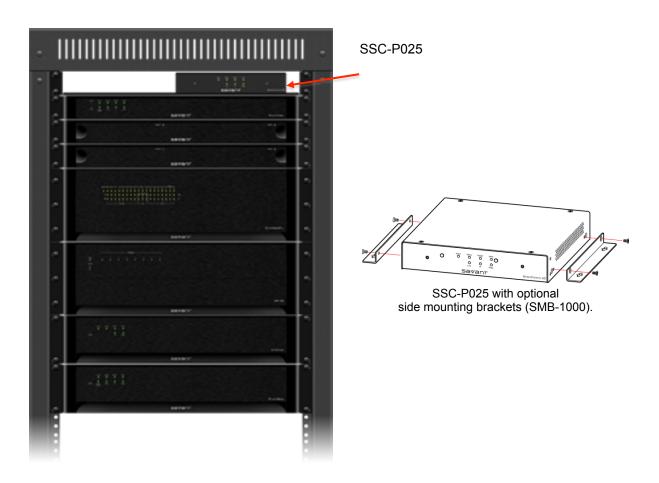
Port Quantity	Port Type	Port Icon	Typical Uses
8	Serial	**101101100** RS-232/422/485	Lighting, Displays, Door Entry Systems, and Heating Ventilation Air Conditioning (HVAC)
6	Infrared	IR	Blu-ray Players, Displays, and Set Top Boxes (Cable and Satellite)
3	Relay	RELAY	Shade Control, Gate Controllers, Door Latches and Motorized Lifts
7	General Purpose Input Output	GPIO	Equipment Power Sensing, and Voltage Control Applications

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Installation and Mounting Options

The SSC-P025 can be mounted in a 1U enclosure. Two of these systems can be mounted on a 1U rack shelf. Note that the mounting hardware is not included with the SSC-P025. The SSC-P025 is compatible with all standard 19-inch National Electrical Manufacturers Association (NEMA) rack-mounts.

The SSC-P025 with an optional rack-mounting bracket (RMB-0025).

SSC-P025

SSC-P025 with optional
side mounting brackets (SMB-1000).

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