

SAVANT






Savant® S2 Host Rack Mountable

Quick Reference Guide

Box Contents

- (1) Savant® S2 Host Rack Mountable - (SHR-S2-xx)
- (1) Install Kit (075-0221-xx)
 - (1) Mounting Plate (074-0577-xx)
 - (1) 5V DC 3A Power Supply with Quick Change AC Adapters (025-0223-xx)
 - (2) 6-pin Screw Down Plug-in Connector (028-9352-xx)
 - (2) 3-pin Screw Down Plug-in Connector (028-9351-xx)
 - (1) 4 inch Cable Tie (014-0071-xx)
- (1) Product and Regulatory Insert (009-1950-xx)

Specifications

| Environmental | | | | | |
|---|--|---|---|---|----------|
| Temperature | 32° to 104° F (0° to 40° C) | | | | |
| Humidity | 10% to 90% Relative Humidity (non-condensing) | | | | |
| Cooling | 10 CFM | | | | |
| Maximum BTU | 51.5 BTU/hr | | | | |
| Dimensions and Weights | | | | | |
| | Height | Width | Depth | Weight | |
| Device | 1.40 in (3.5 cm) | 6.00 in (15.2 cm) | 3.20 in (8.1 cm) | 0.5 lb (0.22 kg) | |
| Shipping | 2.75 in (6.98 cm) | 9.50 in (24.1 cm) | 9.75 in (24.7 cm) | 2.1 lb (0.95 kg) | |
| Rack Space | 1U | | | | |
| Power | | | | | |
| Input Power | 5V DC 3A | | | | |
| Maximum Power | 15 watts | | | | |
| Wireless Standards | | | | | |
| SHR-S2-00 | Wi-Fi (802.11 a/b/g/n 2.4/5 GHz) | | | | |
| SHR-S2-01 | Wi-Fi (802.11 a/b/g 2.4 GHz) | | | | |
| <div> IMPORTANT! 802.11r (fast roaming) is not supported</div> | | | | | |
| Security | WPA™, WPA2™, WPA/WPA2™ | | | | |
| Regulatory | | | | | |
| Safety and Emissions | FCC Part 15  | CE  | C-Tick  | UKCA  | ICES-003 |
| Contains FCC ID | Z64-WL18SBMOD | | | | |
| Contains IC | 451I-WL18SBMOD | | | | |
| RoHS | Compliant | | | | |
| Supported Releases | | | | | |
| SHR-S2-00 | da Vinci 9.1.3 and higher Studio 3.0.2 and higher | | | | |
| SHR-S2-01 | da Vinci 9.2 and higher Studio 3.0.2 and higher | | | | |

Front Panel



A Reset Button

To clear all Ethernet settings and revert them back to their factory defaults, press and hold the reset button for five seconds until the LED blinks red rapidly; then release.

B Status LED

Off: Disconnected from power supply.

Amber: Host is booting/rebooting and is disconnected from the network.

Amber Blinking: Host is in provisioning mode and ready to be added to a network. Host is not assigned an IP Address.

Green: Connected to the local network and is assigned an IP Address.

Green Blinking: Host is in AP Mode and will begin broadcasting its own network. If Host AP Mode is configured, it should be noted that the local network and Host AP Mode network are entirely separate.

Chassis Installation

The S2 Host can be installed on a solid, flat, level surface such as a table, cabinet, or shelf. The location should be dry, well ventilated, and out of direct sunlight.

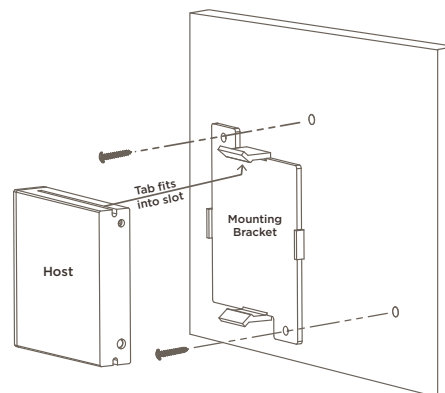
Rack

The optional RCK-3000-xx provides a ventilated shelf for mounting S2 Hosts. This rack is compatible with all standard 19-inch National Electrical Manufacturers Association (NEMA) rack mounts.

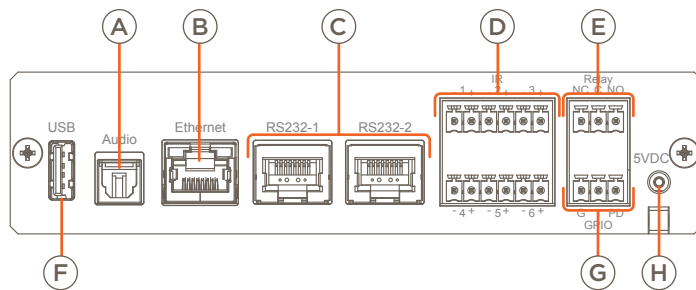
Mounting Plate

A mounting plate (074-0577-xx) is supplied with the SHR-S2. This mounting plate is used to mount the Host to a wall or existing structure. To mount the Host, follow the instructions below.

1. Position the mounting plate onto the wall where the Host will be located. Position the bracket so the tabs that hold the Host are positioned horizontally.
2. Mark the two mounting holes on the wall.
3. Install wall anchors and screw mounting plate to the wall.
4. Snap the SHR-S2 Host into the bracket so the tabs on the mounting bracket seat into the slots on the side of the Host.



Rear Panel



| | |
|-------------------|--|
| A Audio | Digital optical audio (TOSLink) output. Sends Audio Interrupt Service (AIS) to distribution chassis. Supports up to 192kHz/24-bit digital audio out; PCM stereo format only. |
| B Ethernet | 8-pin RJ-45 female. 100 Base-T auto negotiating port. Connecting to this port will disable Wi-Fi settings. |
| C RS-232 | 8-pin RJ-45 female. Used to transmit and receive serial binary data to and from serial controllable devices. Ports 1-2 RS-232 - CTS/RTS handshaking. CTS RTS handshaking availability is based on the component profile. See the RS-232 Wiring section for pin-outs. |
| D IR | 6-pin Screw Down Plug-in Connector. Used to send IR signals to control devices with an IR input or IR receiver via an IR flasher (5V tolerant only). See the IR Wiring section for important precautions regarding IR functionality before making connections. |
| E Relay | 3-pin Screw Down Plug-in Connector. See the Relay Wiring section for pin-outs. Normally Open (NO) / Normally Closed (NC) to control devices requiring basic on/off operation. DC Voltage Max: 30V DC 1A |
| F USB | Not Used |
| G GPIO | 3-pin Screw Down Plug-in Connector. See the GPIO Wiring section for pin-outs. GPIO Input - When configured as an input, the processor will look for a low (<0.8V DC) or a high (>2.4V DC) state. Minimum 0V DC / Maximum 12V DC. GPIO Output - When configured as an output, the port provides a binary output of 0-12V DC 150mA max. |
| H 5V DC | 5V DC 3A - Connect included wall wart power supply between the 5V DC connection and a 115-240V AC surge protected outlet. |

Network Requirements

For more information, see the [Savant Device Networking Guidelines](#) on the [Savant Customer Community](#).

Further Product Information

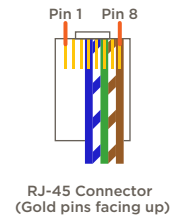
To view available documentation, detailed product specs, and more:

- Visit the Savant Knowledge tab via the [Savant Customer Community](#) to search all Savant documentation.

Control Connections

RS-232 Wiring

| | |
|----------------------|---------------------------|
| Pin 1: No Connection | Pin 5: RXD (Receive) |
| Pin 2: No Connection | Pin 6: TXD (Transmit) |
| Pin 3: No Connection | Pin 7: CTS (Flow Control) |
| Pin 4: GND (Ground) | Pin 8: RTS (Flow Control) |



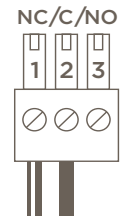
! IMPORTANT!

- Wire colors are included to identify the pins used for this connection. Colors shown do not represent any wiring standard.
- DO NOT connect any wires within the cable that are not required for communications.
- Pins 7 & 8 are only required for CTS/RTS handshaking.
- CTS/RTS handshaking is supported for flow control based on the profile used in the Blueprint configuration.
- RS-422/485 is not supported
- Refer to the **RS-232 Conversion to DB-9 and RS-422/485 Pinout Reference Guide** on the [Savant Customer Community](#) for more information on RJ-45 to DB9 adapters offered by Savant.

Relay Wiring

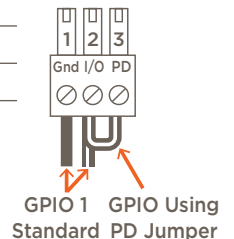
Both Normally Open and Normally Closed outputs are available.

| |
|-----------------------------|
| Pin 1: NC (Normally Closed) |
| Pin 2: Common |
| Pin 3: NO (Normally Open) |



GPIO - General Purpose Input/Output

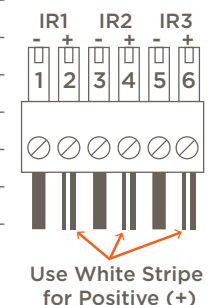
- GPIO's configured as an output can be used to trigger an action within the system such as switching a device.
- GPIO configured as an input can detect a state change and trigger a workflow.
- GPIO pins configured as an input are pulled high to (+12V) during the boot process. To force the GPIO signal low during a boot-up. Connect the PD pin to the GPIO pin. This forces the GPIO output to (< 0.8V) during the processor boot times.



IR Wiring (Infrared)

- Ensure that the all IP emitters are within 15 feet (4.6 meters) from the controller's location.
- Use of 3rd party flashing IR emitters with Talk Back is not recommended. These types of emitters can draw voltage away from the IR signal that can degrade IR performance.

| |
|---------------|
| Pin 1: IR 1 - |
| Pin 2: IR 1 + |
| Pin 3: IR 2 - |
| Pin 4: IR 2 + |
| Pin 5: IR 3 - |
| Pin 6: IR 3 + |



- IR connections IR4 to IR6 (not shown in diagram) follow the same wiring as connections IR1 to IR3.