SAVANT

Savant[®] Smart Host Rack Mountable Quick Reference Guide

Box Contents

- (1) Savant® Smart Host Rack Mountable (SHR-2000-00)
- (1) Install Kit (075-0223-xx)
 - (1) 5V DC 3A Power Supply with Quick Change AC Adapters (025-0216-xx)
 - (2) 6-pin Screw Down Plug-in Connector Black (028-9352-xx)
 - (2) 3-pin Screw Down Plug-in Connector Black (028-9351-xx)
- (1) Product and Regulatory Insert (009-1781-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	34.1 BTU/hr			
Dimensions and Weights				
Height	1.6 in (4.15 cm)			
Width	8.5 in (21.50 cm)			
Depth	3.7 in (9.33 cm)			
Weight	Net: 1.4 lb (0.64 kg)			
	Shipping 2.3 lb (1.05 kg)			
Rack Space	1U			
Power				
Input Power	5V DC 3A			
Maximum Power	15 watts			
Power over Ethernet (PoE)	IEEE 802.3af			
Regulatory				
Safety and Emissions	FCC Part 15 CE C-Tick			
RoHS	Compliant			
Minimum Supported Release				
Savant Software	da Vinci 9.2			

Network Configuration

To ensure the IP Address will not change due to a power outage, a static IP Address or DHCP reservation should be configured. Savant recommends using DHCP reservation within the router. By using this method, static IP Addresses for all devices can be managed from a single UI, avoiding the need to access devices individually.

Setting DHCP reservation varies from router to router. Refer to the documentation for the router to configure DHCP reservation.

Front Panel



Chassis Installation

The Smart 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 RMB-PAVAM2F-xx or RMB-PAVAM2-xx allows two devices to be mounted side by side. For example a Smart Host can be mounted next to a PAV-AIM7C. This rack is compatible with all standard 19-inch National Electrical Manufacturers Association (NEMA) rack mounts.

The instructions below show the RMB-PAVAM2F-xx, both brackets install the same way they just face different directions.

- 1. Align the bracket with the Smart Host mounting points.
- 2. Attach using the screws provided with the bracket.



Refreshing the IP Connection

After connecting to a new network, changing routers, or if the IP Address range in the router was changed, the IP connection should be refreshed. To refresh the IP connection, do one of the following:

- Hot Plug the Ethernet (LAN) Connection
- Cycle power

Rear Panel



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)



RJ-45 Connector (Gold pins facing up)

IMPORTANT!

- Wire colors are included to identify the pins used for this connection. Colors shown do not represent any wiring standard.
- When wiring, DO NOT connect any wires within the cable that are not required for communications.
- Pins 7 & 8 are only required for CTS/RTS handshaking.

Pin 3: NO

- 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 DB9 and RS-422/485 Pin-out Application Note on the Savant Customer Community for more information on RJ-45 to DB9 adapters offered by Savant.

Relay Wiring

Both Normally Open Pin 1: NC and Normally Closed outputs are available.





GPIO - General Purpose Input/Output

-	GPIO's configured	Pin 1: GND (Ground)
	be used to trigger	Pin 2: GPIO 1
	an action within the system such as	Pin 3: PD (Pulldown)
	switching a device.	
-	GPIO configured	
	as an input can	
	detect a state	
	change and trigger	
	a workflow.	



Standard PD Jumper

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 the all IP emitters are within 15 feet (4.6 meters) from the controllers 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.



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