



SmartLink 3-Gang Receiver Wall Plate (IRX-LN01) Quick Reference Guide

Box Contents

- (1) Smart Link 3-Gang Receiver Wall Plate (IRX-LN01)
- (1) Install Kit (075-0147-xx)
 - (1) Faceplate for HDBaseT RX Box (071-0820-xx)
 - (1) 4-pin Screw down Connector (028-9395-xx)
 - (4) Mounting Screws - Philips Flat (039-0103-xx)
- (1) Quick Reference Guide (this document)

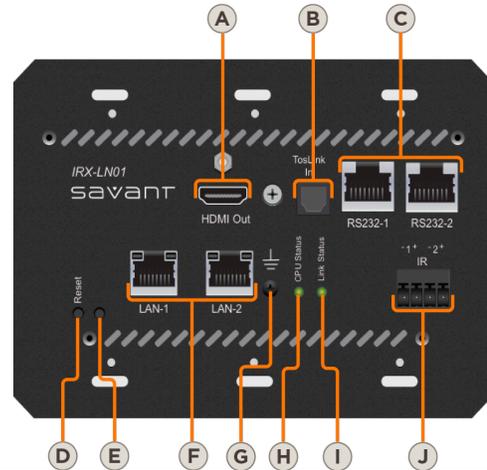
Specifications

Environmental	
Temperature	32° to 104° F (0° to 40°C)
Humidity	10% to 90% Relative humidity (non-condensing)
Dimensions	
	Without Faceplate With Faceplate
Height	4.52 in (11.48 cm) 4.72 in (11.99 cm)
Width	6.35 in (16.12 cm) 6.55 in (16.64 cm)
Depth	2.31 in (5.87 cm) 2.4 in (6.10 cm)
Weight	Net: 0.8 lb (0.36 kg) Shipping: 1.75 lb (0.79 kg)
Power over Ethernet	
Support Standard	IEEE 802.3af
Nominal Power	6 W
Maximum Load	10 W
Regulatory	
Safety and Emissions	FCC Part 15 CE Mark C-Tick
RoHS	Compliant
Minimum Supported Release	
Savant OS	da Vinci 5.2.1

IMPORTANT: Although HDBaseT transmission technology is much less susceptible to EMI interference than other transmission technologies, if possible, Savant recommends that you use shielded Cat5e/Cat6 cable with this product and shielded metal RJ-45 connectors with a drain wire soldered to the connector for maximum reliability. Shielded cable and connectors are also recommended to safeguard against any unpredictable environmental electrical noise which may impact performance at resolutions above 1080p.

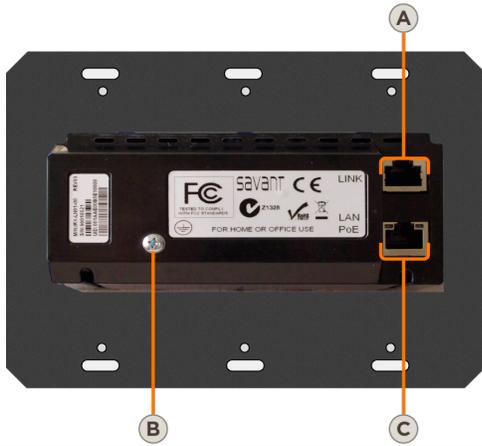
The IRX-LN01 also provides control capabilities for common AV functions for controlling other devices in the room with two serial and two IR ports. The unit also contains two Ethernet ports for connecting local equipment, such as computers, to the local area network (LAN) for added flexibility. The IRX-LN01 does not require a local power supply as it is remotely powered via Power over Ethernet from any IEEE 802.3af compliant PoE switch.

Front Panel



A	HDMI Out	HDMI Type A output provides HDMI audio and video output at video resolutions to 1080p@60hz and graphics resolutions to 1920x1200@60Hz.
B	TosLink In	Reserved for future use.
C	RS-232	RJ-45 ports used to transmit serial binary data.
D	Reset	Push button used to reset Static IP Address
E	Reserved	Reserved for future use.
F	LAN	10/100 Base-T auto-negotiating Ethernet LAN ports. Green (right) indicates an Ethernet speed of 100 Mb. Off indicates an Ethernet speed of 10 Mb. Green (left) indicates Ethernet data activity.
G	⏏	Grounding terminal: optional
H	CPU Status LED	Green indicates the Host has established communications with the embedded system. Green blinking indicates the embedded system is ready (running with DHCP IP address), but the Host has not established communications with the embedded system. Off indicates the embedded processor is resetting or is powered up; and is booting the embedded firmware. Red indicates the Host has determined the firmware needs to be updated, but a problem occurred during the process that will initiate a reset. Red blinking indicates the embedded firmware is running, but has not received a DHCP IP Address. Amber indicates the Host is currently updating the embedded firmware. Amber blinking indicates the embedded system has a valid link-local IP Address and is waiting to connect to the Host.
I	Link Status LED	Green indicates valid link. Off indicates no link.
J	IR	Infrared serial transmitter output ports.

Rear Panel



A LINK

RJ-45 port used for extended link connection to input HDMI audio and video signals (Extended Link Out) from VOM-LN02 or VOM-LN04.

B 

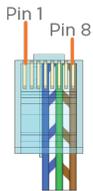
Grounding terminal: optional use

C LAN PoE

RJ-45 Cat5e/Cat6 port allows 10/100 Base-T (auto-negotiating) communication between a LAN and the embedded CPU at 10/100 data rates.
Green: (right) indicates an Ethernet speed of 100 Mb.
Off: indicates an Ethernet speed of 10 Mb.
Green: (left) indicates Ethernet data activity.
 Power over Ethernet (PoE) is supported on this port.

Wiring and Connectors

RS-232 Wiring



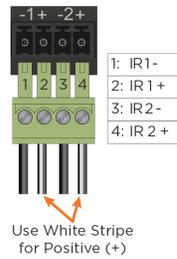
Pin 1: -----	Pin 5: RXD (RS-232)
Pin 2: -----	Pin 6: TXD (RS-232)
Pin 3: -----	Pin 7: CTS (RS-232)
Pin 4: GND (RS-232)	Pin 8: RTS (RS-232)

- Pins 7 & 8 are only required for CTS/RTS handshaking.
- Wire coloring is included to identify the pins used for this connection. Colors shown do not represent any wiring standard.

RJ-45 Connector (Gold Pins Facing Up) **IMPORTANT!** When wiring to this port, DO NOT connect any wires within the cable that are not required for communication.

Important: If you are using RJ-45 to DB-9 adapters not supplied by Savant, be sure to terminate any wires required for communication/control within the adapter. Ensure that all wires required for communication/control are not terminated in the connector. Also, ensure that the unused wires in the connector are cut to prevent them shorting out, as they are still terminated in the RJ-45 connector on the controller side.

IR Port Layout and Pinouts



Additional Documentation

- Additional Documentation is available on the Savant Community.
- 4-Port Output Modules: VOM-LN04-01 Quick Reference Guides
 - RS-232 Conversion to DB-9 and RS-422/485 Pinout Application Note

Required System Components

- VOM-LN04-01 - Video output modules using HDBaseT technology through Cat5e or Cat6 cabling.
- SmartMediaPro - SSP-XXXX
- Savant Host - HST-XXXX or SVR-XXXX
- Ethernet Network - Enterprise-grade network deployment enabled with PoE IEEE 802.3af standard

Installing the IRX-LN01

To install the IRX-LN01 into a standard 3-gang box, do the following:

1. Take the LINK and LAN PoE cables from inside the 3-gang box and connect them to their respective ports on the IRX-LN01 as shown above.

IMPORTANT/Rear Connection Cables: Savant recommends mounting the IRX-LN01 into a low voltage 3-gang installation box (open back) to allow room for the rear cable connections. A standard 3-gang junction box can also be used. Please note the following:

- Do not use shallow installation boxes.
 - Do not use cables with a long boot (For example, patch cables or inadequate bend radius).
2. Carefully slide the IRX-LN01 into the 3-gang box. Ensure the cables do not get damaged.
 3. Align the mounting holes on the IRX-LN01 and 3-gang box and secure with the four screws.
 4. Make required connections to the front of the IRX-LN01.

HELPFUL INFORMATION!!

To avoid HDBaseT signal loss, Savant recommends making a direct end-to-end (homerun) connection when running the Cat 5e/6/7 cabling. Patch panels, wall plates, or similar types of splicing products allow noise to be introduced which reduces the quality of the video and in some instances video loss.