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HT-DSCV3

USB 3.2 Extender Family

USER MANUAL

March 21, 2025

HT-DSCV3-TX-WP

HT-DSCV3-TX

HT-DSCV3-RX-WP

HT-DSCV3-RX

HT-DSCV3-RX-V2

Important Safety Instructions

1. Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

2. Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure the unit is well ventilated.

3. To prevent risk of electric shock or fire hazard due to overheating, do not obstruct the unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.
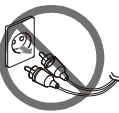
4. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

5. Do not place sources of naked flames, such as lighted candles, on the unit.

6. Clean this apparatus only with dry cloth.

7. Unplug this apparatus during lightning storms or when unused for long periods of time.

8. Protect the power cord from being walked on or pinched particularly at plugs.

9. Only use attachments / accessories specified by the manufacturer.

10.   Refer all servicing to qualified service personnel.

Table of Contents

Introduction

OVERVIEW

The DSCV3 family is the next generation of USB 3.2 extension which supports USB 3.2 Gen 1x1 standard. These extenders support 5 Gbit/s data transfer rate and are backwards compatible with USB 3.0, USB 2.0, and USB 1.1 specifications.

The DSCV3 family includes the POH (Power over HDBT) module, which requires the extenders to be powered on only one side (TX or RX). The transmitter's built-in PSE module, when connected to local power, provides 90W charging to the host device via USB-C.

Using the HT-DSCV3-RX-V2 model, video from a PC can be received and displayed on two separate displays/monitors using only a USB-C connection from the laptop into a transmitter.

With the built-in control pass-through, users can control the source from the display's location or can control the display from the source's location. And, with their small form factor, the extenders are easy to install in many locations.

FEATURES

- Supports USB 3.2 Gen 1x1 standard
- Backwards compatible to support USB 3.0, USB 2.0, and USB 1.1 devices
- Supports 90m transmission via Cat6a/7
- Supports up to 5 Gbit/s data transfer rate
- Supports RS-232 pass-through
- POH power module – only one device connected to power
- PSE power module – provides 90W charging power to the connected host device
- Dual HDMI video outputs (-RX-V2 version only)

Package Contents

HT-DSCV3-TX

- 1x Extender Transmitter Unit
- 1x 3-Pin Phoenix Male Connector
- 2x L-brackets with Screws
- 4x Rubber Feet

HT-DSCV3-TX-WP

- 1x Extender Transmitter Wall Plate
- 1x Cover Plate w/ Screws
- 1x 4-Pin Phoenix Male Connector
- 2x Mounting Screws

HT-DSCV3-RX

- 1x Extender Receiver Unit
- 1x 52V 65W Power Supply
- 1x 3-Pin Phoenix Male Connector
- 2x L-brackets with Screws
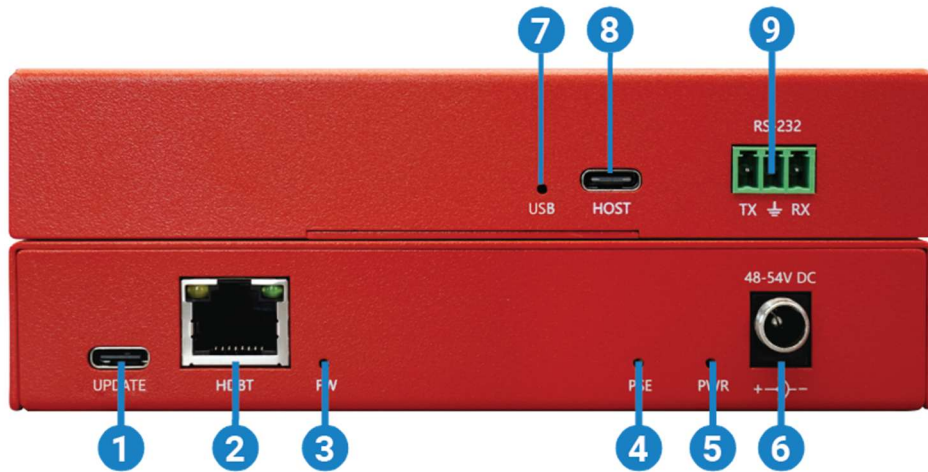- 4x Rubber Feet

HT-DSCV3-RX-WP

- 1x Extender Receiver Wall Plate
- 1x Cover Plate w/ Screws
- 1x 4-Pin Phoenix Male Connector
- 2x Mounting Screws

HT-DSCV3-RX-V2

- 1x Extender Receiver Unit with Video
- 1x 52V 65W Power Supply
- 1x 3-Pin Phoenix Male Connector
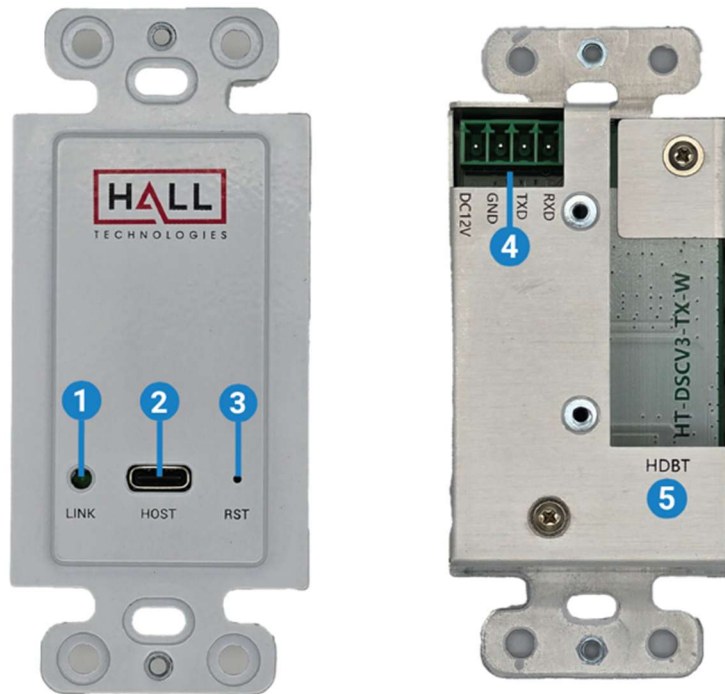- 2x L-brackets with Screws
- 4x Rubber Feet

Connectors & Indicators
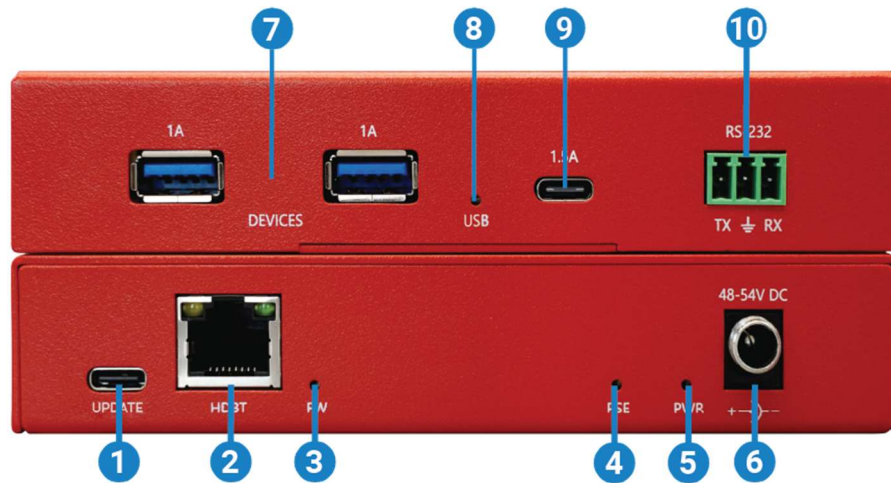
HT-DSCV3-TX FRONT AND REAR PANEL

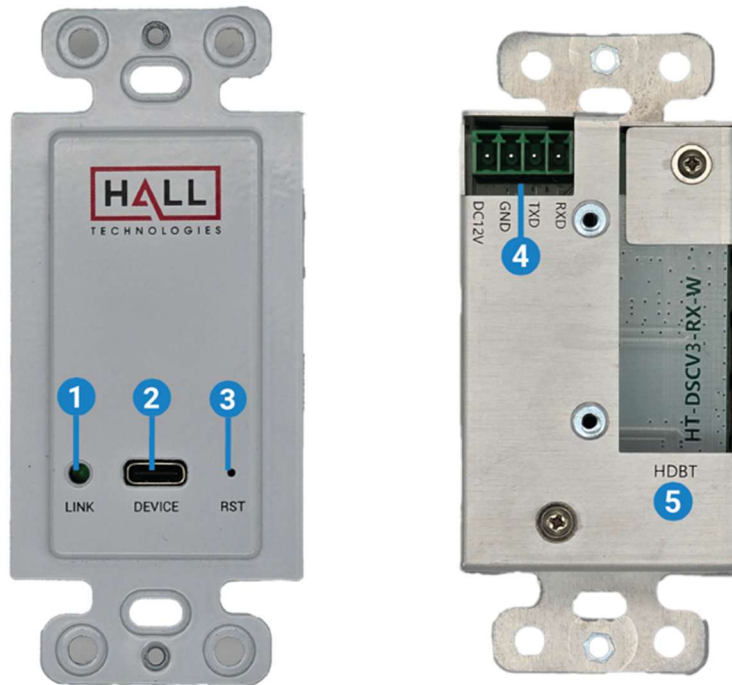| No.	Name	Description
1	UPDATE	Device debugging and firmware update port.
2	HDBT	HDBaseT output, connected to the RX input via Cat5e/6/7 cable.
3	FW	LED status indicator. When performing a firmware update, slow flashing of this LED is normal; fast flashing indicates an error.
4	PSE	PSE power supply LED indicates the power supply module is working properly when lit.
5	PWR	Power LED indicates the power supply is 5V DC.
6	DC	54V power supply connection, connected at either TX or RX side. (Included with HT-DSCV3-RX and HT-DSCV3-RX-V2 models only.) NOTE: for source charging, connect power supply locally at HT-DSCV3-TX
7	USB	USB LED indicates a host PC is properly connected.
8	HOST	USB 3.2 Type-C 5G interface for the host connection.
9	RS-232	RS-232 pass-through from TX to RX or from RX to TX.

HT-DSCV3-TX-WP FRONT AND REAR PANEL

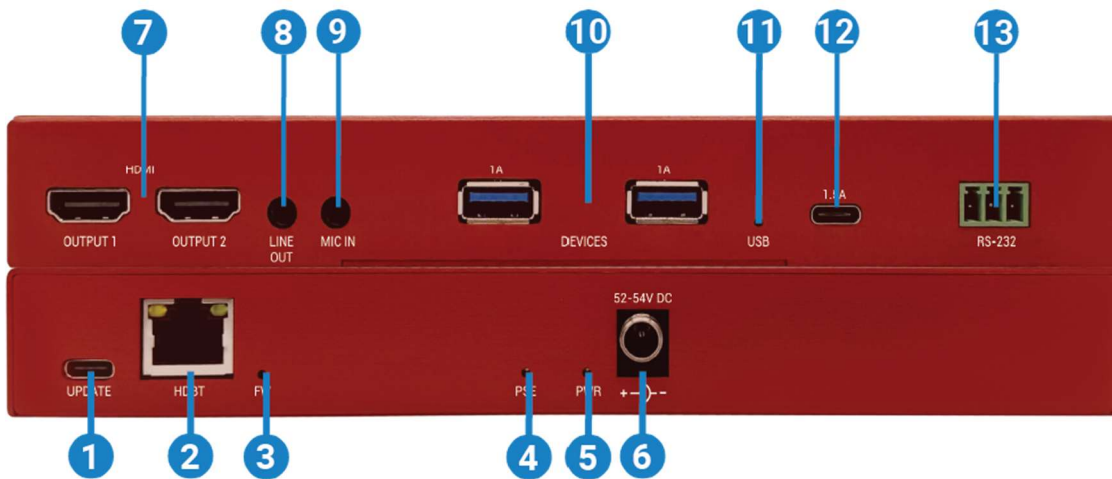| No.	Name	Description
1	LINK	LINK LED illuminates when properly connected to an RX
2	HOST	USB 3.2 Type-C 5G interface for the host connection.
3	RST	Using a pin, push and hold for 3 seconds to perform a factory reset.
4	RS232 / PWR	12V local power and RS-232 pass-through from TX to RX or from RX to TX. NOTE: 12V power is only needed when connecting HT-DSCV3-TX-WP and HT-DSCV3-RX-WP in a chain. Otherwise, power will be POH from HT-DSCV3-RX or HT-DSCV3-RX-V2.
5	HDBT	HDBaseT output, connected to the RX input via Cat5e/6/7 cable.

HT-DSCV3-RX FRONT AND REAR PANEL

No.	Name	Description
1	UPDATE	Device debugging and firmware update port.
2	HDBT	HDBaseT input, connected to the TX output via Cat5e/6/7 cable.
3	FW	LED status indicator. When performing a firmware update, slow flashing of this LED is normal; fast flashing indicates an error.
4	PSE	PSE power supply LED indicates the power supply module is working properly when lit.
5	PWR	Power LED indicates the power supply is 5V DC.
6	DC	54V power supply connection, connected at either TX or RX side. NOTE: for source charging, connect power supply at HT-DSCV3-TX.
7	Devices, Type-A	USB 3.2 Type-C 5G interface for device connections, providing 1A power.
8	USB	USB LED indicates a device is properly connected.
9	Devices, Type-C	USB 3.2 Type-C 5G interface for device connection, providing 1.5A power.
10	RS-232	RS-232 pass-through from TX to RX or from RX to TX.

HT-DSCV3-RX-WP FRONT AND REAR PANEL

No.	Name	Description
1	LINK	LINK LED illuminates when properly connected to an RX
2	DEVICE	USB 3.2 Type-C 5G interface for device connection.
3	RST	Using a pin, push and hold for 3 seconds to perform a factory reset.
4	RS232 / PWR	12V local power and RS-232 pass-through from TX to RX or from RX to TX. NOTE: 12V power is only needed when connecting HT-DSCV3-TX-WP and HT-DSCV3-RX-WP in a chain. Otherwise, power will be POH from HT-DSCV3-TX.
5	HDBT	HDBaseT input, connected to the TX output via Cat5e/6/7 cable.

HT-DSCV3-RX-V2 FRONT AND REAR PANEL

No.	Name	Description
1	UPDATE	Device debugging and firmware update port.
2	HDBT	HDBaseT input, connected to the TX output via Cat5e/6/7 cable.
3	FW	LED status indicator. When performing a firmware update, slow flashing of this LED is normal; fast flashing indicates an error.
4	PSE	PSE power supply LED indicates the power supply module is working properly when lit.
5	PWR	Power LED indicates the power supply is 5V DC.
6	DC	54V power supply connection, connected at either TX or RX side. NOTE: for source charging, connect power supply at HT-DSCV3-TX.
7	HDMI OUT	Two individual HDMI video outputs used to connect to two different displays. NOTE: When a PC is connected to the HT-DSCV3-TX (or -WP), the PC can be set to extend in project mode, allowing for 2 additional displays to be extended to.
8	LINE OUT	3.5mm audio line output for audio extraction from connected source. NOTE: when this is connected, audio out of HDMI will no longer be present.
9	MIC IN	3.5mm mic input for embedding an analog microphone to the connected source.
10	Devices, Type-A	USB 3.2 Type-C 5G interface for device connections, providing 1A power.
11	Devices, Type-C	USB 3.2 Type-C 5G interface for device connection, providing 1.5A power.
12	USB	USB LED indicates a device is properly connected.
13	RS-232	RS-232 pass-through from TX to RX or from RX to TX.

Specifications

Technical	
USB Standard	USB 3.2 Gen 1x1
Data Rate	Up to 5 Gbit/s
Transmission Distance	90m over Cat6A/7

HT-DSCV3-TX	
Inputs	1 x USB 3.2 Type-C, Host 1 x 3-Pin Phoenix, RS-232
Outputs	1 x RJ-45, HDBT
Firmware	1 x USB 2.0 Type-C
Dimensions	5.5" L x 4" D x 1" H (139.7mm x 101.6mm x 25.4mm)
Weight	0.95 lbs. (0.43 kg)
Power	1 x DC 52V, 1.5A, 65W (power supply not included)

HT-DSCV3-TX-WP	
Inputs	1 x USB 3.2 Type-C, Host 1 x 4-Pin Phoenix, RS-232 and 12V Power
Outputs	1 x RJ-45, HDBT
Dimensions	1.75" W x 4" H x 1.5" D (44.45mm x 101.6mm x 38.1mm)
Weight	0.3 lbs. (0.14 kg)
Power	1 x 12V, 1A on Phoenix Connector (power supply not included)

HT-DSCV3-RX	
Inputs	1 x RJ-45, HDBT
Outputs	2 X USB 3.2 Type-A, Devices 1 x USB 3.2 Type-C, Devices 1 x 3-Pin Phoenix, RS-232
Firmware	1 x USB 2.0 Type-C
Dimensions	5.5" L x 4" D x 1" H (139.7mm x 101.6mm x 25.4mm)
Weight	0.95 lbs. (0.43 kg)
Power	1 x DC 52V, 1.5A, 65W (power supply included)

HT-DSCV3-RX-WP	
Inputs	1 x RJ-45, HDBT 1 x 4-pin Phoenix, RS-232 and 12V Power
Outputs	1 x USB 3.2 Type-C, Device
Dimensions	1.75" W x 4" H x 1.5" D (44.45mm x 101.6mm x 38.1mm)
Weight	0.3 lbs. (0.14 kg)
Power	1 x 12V, 1A on Phoenix Connector (power supply not included)

HT-DSCV3-RX-V2	
Inputs	1 x RJ-45, HDBT
Outputs	2 X USB 3.2 Type-A, Devices 1 x USB 3.2 Type-C, Devices 2 x HDMI Outputs 1 x 3.5mm Line Audio Output 1 x 3-Pin Phoenix, RS-232
Resolution	4k@30Hz, each output
Firmware	1 x USB 2.0 Type-C
Dimensions	7.9" W x 4" D x 1" H (200.7mm x 101.6mm x 25.4mm)
Weight	1.3 lbs. (0.59 kg)
Power	1 x DC 52V, 1.5A, 65W (power supply included)

General	
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Humidity	10% to 90%, non-condensing

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