



# DIGITALINX

VALUE-ENGINEERED DIGITAL SOLUTIONS

## DL-SCU-RX Quick Install Guide



## Product Overview

The DigitaLinx DL-SCU-RX is an HDBaseT 2.0 receiver designed to work with the DL-SC41U-TX and the DL-SC41UP-BXTX switchers (sold separately). The DL-SCU-RX will reliably extend audio, video, USB 2.0 High Speed signals up to 190Mbps and RS232 up to 70m / 232'. The receiver is 4K compatible with a max resolution of 4K@60Hz / 4:2:0 8bit deep color. With an integrated PSE module built in, the DL-SCU-RX can power the compatible HDBT 2.0 transmitters devices via HDBaseT transmission. The DL-SCU-RX features an HDMI input for a local A/V source, a balanced stereo audio analog output (de-embeds two channel audio from HDMI), a 2 port USB 2.0 client hub, an RS232 port for display or control system support and two relay switches.

The DL-SCU-RX once paired with the DL-SC41U-TX or DL-SC41UP-BXTX switcher is ideal for software based video teleconference rooms that require the consolidation and sync of A/V and USB signals from a laptop or room PC.

**NOTE:** The DL-SCU-RX HDBaseT receiver can be used with the DL-SC41U-TX and the DL-SC41UP-BXTX HDBaseT 2.0 transmitter (sold separately) to complete the circuit.

## Package Contents

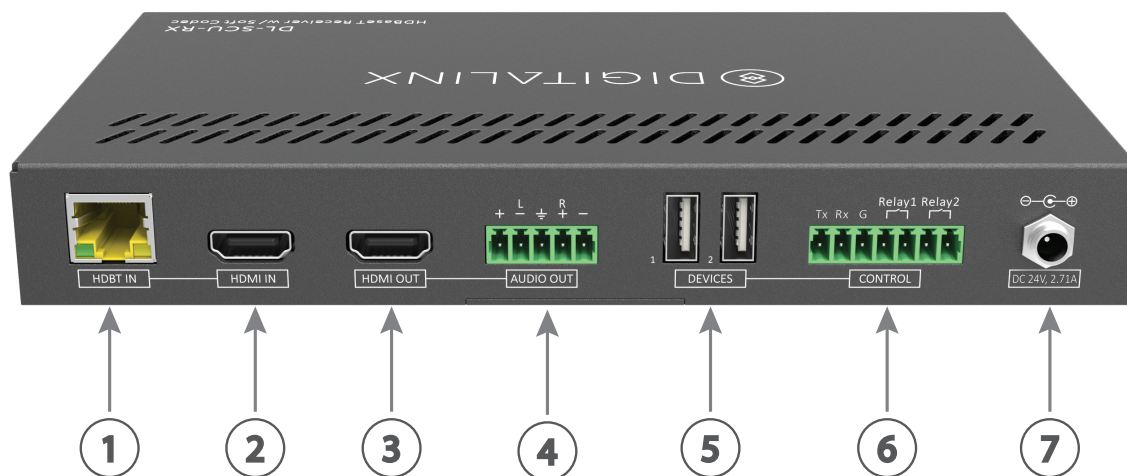
- DL-SCU-RX HDBaseT Receiver
- (1) Quick Install Guide
- (1) RS232 Breakout Cable, 3pin phoenix to DB9
- (1) 4 pin Phoenix Male Connector
- (1) 5 pin Phoenix Male Connector
- (1) DC24V Power Supply with US, UK, EU and AU adapter plugs
- (2) Mounting Brackets
- (4) Plastic Cushions

## Front Panel View



1. **POWER LED** - Illuminates red when power is applied
2. **HDBT LED** - Illuminates blue when HDBaseT input is selected
3. **HDMI LED** - Illuminates blue when HDMI input is selected
4. **FIRMWARE** - Micro USB port for firmware updates

## Back Panel View



1. **HDBT IN** - HDBaseT input
2. **HDMI IN** - Local HDMI input
3. **HDMI OUT** - HDMI output
4. **AUDIO OUTPUT** - Stereo balanced analog output
5. **DEVICE 1 / 2** - 2 port USB client hub
6. **CONTROL**
  - RS232; The 3 pins to the left is the serial / RS232 connection
  - RELAY 1/2; The 4 pins to the right is relay 1 and relay 2 switch control
7. **DC24V** - Power supply input

# Connectivity Instructions

1. Verify all components included with the extender set are present before installation.
2. Turn off power and disconnect the audio/video equipment by following the manufacturer's instructions.
3. Connect Category 6 or greater solid core twisted pair cable with RJ45 connectors between a compatible transmitter (DL-SC41U-TX and the DL-SC41UP-BXTX sold separately) and the DL-SCU-RX receivers HDBaseT ports. TIA/EIA-568B straight-through wiring connections must be used with all HDBaseT extenders.
4. Connect an HDMI cable between the display device and the DL-SCU-RX receiver.
5. (Optional) Connect USB cables between the USB hub to USB devices
6. (Optional) Connect audio cables between the audio output to a local power amplifier
7. (Optional) Connect relays with 2 conductor cables between the relay ports and a 3rd party device control such as shades, projector screen
8. (Optional) Connect an RS232 cable between the DL-SCU-RX and the RS232 port of a display device
9. Connect the power supply adapter to the DL-SCU-RX receiver locking input port and plug into an AC outlet.
10. Power on attached audio/video and USB devices.

# Cabling Wiring Requirements

## HDBaseT Cabling

To ensure proper performance of the DL-SCU-RX, it is recommended that you use solid core, shielded Category 6 F/UTP cabling at a minimum. Category 5e F/UTP may perform well but may not support power over HDBaseT reliably over longer distances.



When using shielded category cabling *ALWAYS*...

- ....use shielded connectors
- ....properly ground the category cable

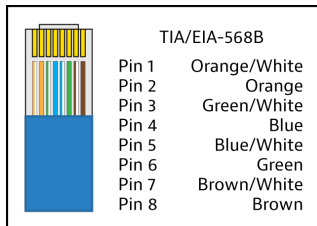
For optimized HDBaseT performance use the following Liberty Wire and Cable branded cabling;

Category 6 plenum; **24-4P-P-L6SH**

Category 6A plenum; **24-4P-P-L6ASH**

Category 6 NON-plenum; **24-4P-L6SH**

Category 6A NON-plenum; **24-4P-L6ASH**



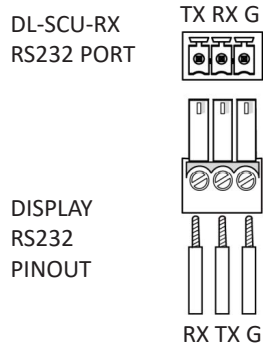
### Twisted Pair Wiring

Use TIA/EIA-568B wiring for Category 6 connection between send and receive units.

### RS232 Wiring

Connect the display device RX signal to TX on the DL-SCU-RX extender. Connect the display device TX signal to RX on the DL-SCU-RX extender.

Connecting to  
TV Display



# Technical Specifications

<b>Video</b>	
Video Inputs	(1) HDMI, (1) HDBaseT
Video Input Connector	(1) HDMI type A, (1) RJ45
Video Output	(1) HDMI
Video Output Connector	(1) HDMI type A
Input Resolution Support	HDBT: Up to 4K@60Hz 4:2:0 8bit deep color HDMI: Up to 4K@60Hz 4:4:4 8bit deep color
Output Resolution Support	HDMI: Up to 4K@60Hz 4:4:4 8bit deep color HDBaseT: Up to 4K@60Hz 4:2:0 8bit deep color
Standards	Compliant with HDMI 2.0 & HDCP2.2
<b>USB</b>	
Supported USB Standard	Up to USB 2.0 High Speed up to 190Mbps
USB Port Type	(2) USB A
<b>Audio</b>	
Supported audio formats	HDMI: PCM 2.0, LPCM 5.1, LPCM 7.1, Dolby TrueHD, DTS-HD Master Audio Balanced Stereo Output: 2 Channel Stereo
Frequency Response	20 Hz to 20 kHz, $\pm 1$ dB
Max Output Level	2.2 $\pm$ 0.1Vrms
<b>Control</b>	
Control / Port Type	(1) RS232 / 3pin phoenix, (2) RELAY / 4 pin phoenix
<b>General</b>	
System Bandwidth	HDMI Input: 18Gbps HDBaseT Input: 10.2Gbps HDMI Output: 18Gbps
Transmission Distance	1080P @ 70m or less when using Cat6 F/UTP, 4K @ 40m or less when using Cat6 F/UTP
Operating Temperature	0 ~ +45 C (32 F to +113 F)
Storage Temperature	-20 - +70 C (-4 - +158 F)
Humidity	10% ~ 90%
Power Supply	DC24V , 2.71A
Power Consumption	32 watts (maximum -powering receiver and transmitter)
Dimension (W*H*D)	205mm x 27.5mm x 115mm (8.1 x 1.1in x 4.5in)
Weight	390g, .8lbs
Warranty	5 years
Certification	CE, FCC, RoHS
Included Accessories	Quick Install Guide, Power Supply with US, UK, AU and EU power plugs, (1), 3 pin to DB9 RS232 breakout cable, (1) 4 pin phoenix connector, (1) 5 pin phoenix connector, (2) Mounting clips with screws and (4) plastic cushions

Thank you for your purchase.

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800-530-8998 or email us at [supportlibav@libav.com](mailto:supportlibav@libav.com)

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Digitalinx is a brand of:



11675 Ridgeline Drive  
Colorado Springs, Colorado  
80921 USA  
Phone: 719-260-0061  
Fax: 719-260-0075  
Toll-Free: 800-530-8998