

DL-1H1A1U-B Install Guide





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Product Overview

The Digitalinx DL-1H1A1U-B HDBaseT 2.0 extender set transmits HDMI, audio , USB High Speed (up to 190Mbps) and RS232 over single category 6 twisted pair cable. The DL-1H1A1U-B can transmit 4K resolutions up to 4K@60Hz, 4:2:0 up to 40m / 120' and 1080P up to 70m / 230'. The 3.5mm audio input/output circuit is completely separate and is not dependent on the HDMI or USB input source to be activated. The Digitalinx DL-1H1A1U-B is HDMI 1.4b and HDCP 2.2 compliant and supports CEC pass through.

The DL-1H1A1U-B HDBaseT receiver or transmitter can power the entire HDBaseT extender set so there is no need for an external power supply to be used on both transmitter and receiver.

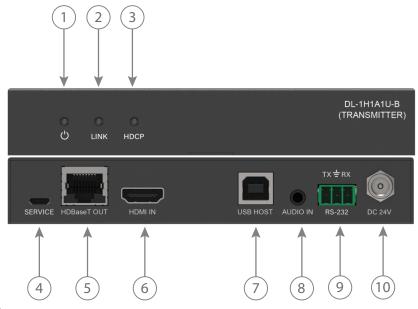
The DL-1H1A1U-B is sold only as a set. The individual transmitter and receiver are not compatible with other HDBaseT devices due to proprietary PoE circuitry.

Package Contents

- DI-1H1A1U-B extender set
- Quick Install Guide
- (2) 3 Pin phoenix connector
- (1) DC24V 1A power supply with US, UK, EU and AU power adapter plugs
- (2) Mounting ears with mounting screws

Transmitter / Receiver View

Transmitter Front / Back View



1. POWER LED

- When LED is ON, transmitter is powered on
- When LED is OFF, transmitter is powered off

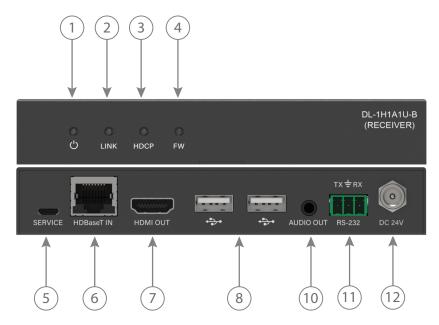
2. LINK LED

- When LED is ON, transmitter and receiver is properly connected with Category cable
- When LED is OFF, transmitter and receiver is not properly connected

3. HDCP LED

- When LED is ON, transmitted AV content is encrypted
- When LED is OFF, transmitted AV content is not encrypted
- 4. SERVICE- USB Micro port for firmware updates
- 5. HDBaseT OUT- HDBaseT output
- 6. HDMI IN Video source input
- 7. USB USB host port
- 8. AUDIO IN- 3.5 mm analog audio source input
- 9. RS232 Serial port for transmitting / receiving RS232 signals
- 10. DC24V Phoenix connector for connecting external power supply

Receiver Front / Back View



1. POWER LED

- When LED is ON, receiver is powered on
- When LED is OFF, receiver is powered off

2. LINK LED

- When LED is ON, transmitter and receiver is properly connected with Category cable
- When LED is OFF, transmitter and receiver is not properly connected

3. HDCP LED

- When LED is ON, transmitted AV content is encrypted
- When LED is OFF, transmitted AV content is not encrypted

4. FW LED

- When LED is ON, unit is ON and receiving power
- 5. SERVICE- USB Micro port for firmware updates
- 6. HDBaseT IN- HDBaseT input
- 7. HDMI OUT HDMI AV output
- 8. USB USB A client side ports
- 9. AUDIO OUT- 3.5 mm analog audio source output
- 10. RS232 Serial port for transmitting / receiving RS232 signals
- 11. DC24V Phoenix connector for connecting external power supply

Connectivity Instructions

- 1. Verify all components included with the extender set are present before installation.
- 2. If the extenders are going to be permanently mounted to a surface, attach the included mounting brackets with the supplied screws.
- 3. Turn off power and disconnect the audio/video equipment by following the manufacturer's instructions.
- 4. Connect Category 6 or greater twisted pair cable with RJ45 connectors between the transmitter (DL-1H1A1U-B) and the receiver (DL-H1A1U-B). TIA/EIA-568B straight-through wiring connections must be used with all HDBaseT extenders.
- 5. Connect an HDMI cable and any desired control accessories between the display and the receiver (DL-H1A1U-B).
- 6. Connect an HDMI cable and any desired control accessories between the source and the transmitter (DL-1H1A1U-B).
- 7. Connect a computer USB port to the transmitter (DL-1H1A1U-B) USB host port.
- 8. Connected USB peripherals such as white-boards and USB cameras the to USB client ports of the receiver (DL-1H1A1U-B) USB ports.
- 9. Connect the included power supply to the DL-1H1A1U-B receiver or transmitter and lock the power supply to the power connector by twisting the locking collar clockwise.
- 10. Power on attached audio/video devices.

Cabling Requirements

HDBaseT Cabling

To ensure proper performance of the DL-1H1A1U-B, 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.

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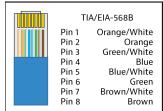
When using shielded category cabling ALWAYS...

-use shielded connectors
-properly ground the category cable

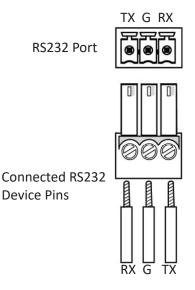
For optimized HDBaseT performance use the following Liberty Wire and Cable branded cabling;

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 controller or device RX signal to TX on the DL-1H1A1U-B extender. Connect the controller or device TX signal to Rx on the DL-1H1A1U-B extender.

Technical Specifications

VIDEO	
Video Inputs (TX)	(1) HDMI
Video Input Connector (TX)	(1) HDMI type A
Input Video Signal	HDMI
Video Output (RX)	(1) HDMI
Video Output Connector (RX)	(1) HDMI type A
Output Video Signal	HDMI
Input Resolutions Supported	Up to 3840 x 2160 @ 60Hz, 4:2:0, 8bit color depth
Standards	Compliant with HDMI 1.4b & HDCP2.2
USB	
Supported USB Standard	USB 2.0 High Speed
USB Data Transfer Bandwidth	190Mbps
USB Port Type	(1) USB Type B (TX)
	(2) USB Type A (RX)
AUDIO	
Supported output formats (HDMI)	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS,
	DTS-EX,DTS-96/24, DTS High Res, DTS-HD Master
	Audio, DSD
Supported output formats (Analog)	PCM 2.0
Audio Input / Output	Stereo analog
Audio Input / Output Connector	(1) 3.5mm TRS audio jack
Audio Output Impedance	70 Ohms
Frequency Response	20Hz~20K Hz
CONTROL	
Control Port / Connector	(1) RS232 (TX) / 3 phoenix connector
	(1) RS232 (RX) / 3 phoenix connector
OTHER	
System Bandwidth	10.2Gbps
Operating Temperature	0C ~ +40C
Storage Temperature	-20C ~ +60C
Humidity	20% ~ 90%
Power Supply	Input:100V~240V AC; Output: 24V DC 1A
Power Consumption	9 watts
Dimension (W*H*D)	TX:140mm * 23mm * 75mm / 5.5" * .9" * 2.9""
	RX:140mm * 23mm * 75mm / 5.5" * .9" * 2.9"
Weight	TX:200g / .44 lbs
	RX:200g / .44 lbs
Warranty	5 years
Certification	CE, FCC, RoHS

Thank you for your purchase.

For Technical Support please call our toll free number at 800-530-8998 or email us at supportlibav@libav.com

www.libav.com

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