# DIGITALINX
## VALUE-ENGINEERED DIGITAL SOLUTIONS

# DL-1H1A1U-WPKT-W Install Guide

Rev 181219

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# Product Overview

The Digitalinx DL-1H1A1U-WPKT-W 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-WPKT-W can transmit 4K resolutions up to 4K@60Hz, 4:2:0 up to 40m / 120' and 1080P up to 70m / 230'. The audio circuit is completely separate and is not dependent on the HDMI or USB input source to be active. The Digitalinx DL-1H1A1U-WPKT-W is HDMI 1.4b and HDCP 2.2 compliant and supports CEC pass through.

The DL-1H1A1U-WPKT-W HDBaseT receiver powers wall plate transmitter via HDBaseT so there is no need for an external power supply for the wall plate.
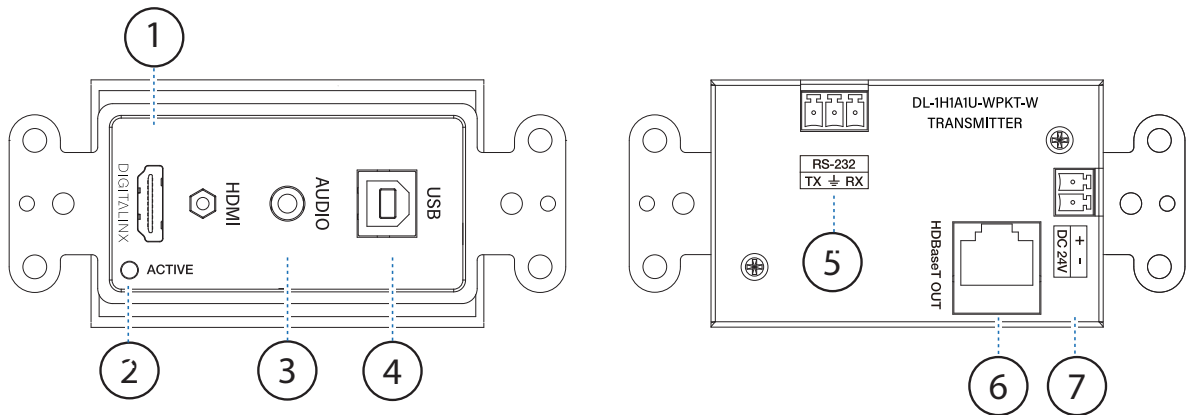
The DL-1H1A1U-WPKT-W is sold only as a set. The individual transmitter and receiver are not compatible with other HDBaseT devices due to proprietary PoE circuitry.

# Package Contents

- DL-1H1A1U-WPKT-W Wall plate extender set
- Quick Install Guide
- (1) Decora cover plate
- (1) 3 Pin phoenix connector
- (1) 2 Pin phoenix connector
- (1) DC24V 1A power supply with US, UK, EU and AU power adapter plugs
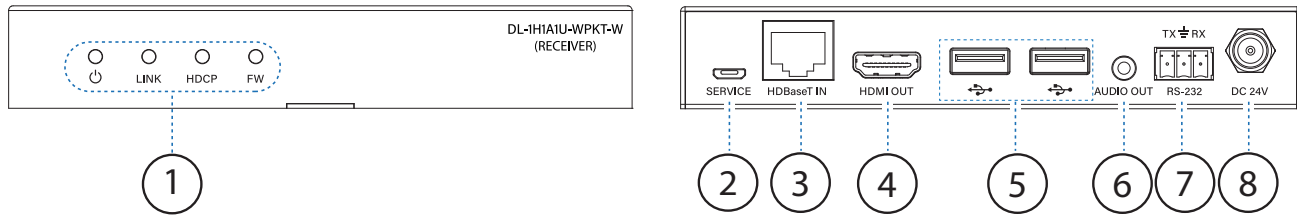- (2) Mounting ears with mounting screws

# Transmitter / Receiver View

*Transmitter*



1.  HDMI IN - Video source input

2.  ACTIVE LED

    • *When LED is green, unit is received active HDMI signal*
    • *When LED is off, no active HDMI signal is present*

3.  AUDIO IN- 3.5 mm analog audio source input

4.  USB - USB host port

5.  RS232 - Serial port for transmitting / receiving RS232 signals

6.  HDBaseT OUT - HDBaseT output port

7.  DC24V - Phoenix connector for connecting external power supply

    **Note**: The DL-1H1A1U-WPKT-W-TX can receive power via HDBaseT from the receiver when connected together with a Category 6 F/UTP cable

*Receiver*



1. ACTIVITY LED'S

   - *When POWER LED is ON, unit is receiving power*
   - *When LINK LED is ON, the TX and RX is connected properly*
   - *When HDCP LED is ON, unit is receiving HDCP encrypted content*
   - *When FW LED is ON, unit is receiving power*

2. SERVICE- For firmware updates

3. HDBaseT IN - HDBaseT input port

4. HDMI OUT - HDMI output to connect to display technology

5. USB- USB Client side ports

6. AUDIO OUT - 3.5mm analog audio output port

7. RS232- Serial port for transmitting / receiving RS232 signals

8. DC24V - Locking 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-WPKT-W-TX) and the receiver (DL-H1A1U-WPKT-W-RX). 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-WPKT-W-RX).

6.  Connect an HDMI cable and any desired control accessories between the source and the transmitter (DL-1H1A1U-WPKT-W-TX).

7.  Connect a computer USB port to the transmitter (DL-1H1A1U-WPKT-W-TX) USB host port.

8.  Connected USB peripherals such as white-boards and USB cameras the to USB client ports of the receiver (DL-1H1A1U-WPKT-W-RX) USB ports.

9.  Connect the included power supply to the DL-1H1A1U-WPKT-W receiver 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-WPKT-W, 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.

When using shielded category cabling *ALWAYS*...

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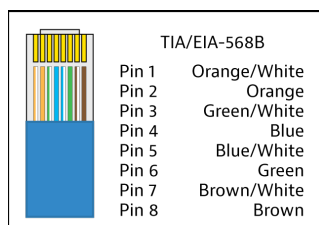....properly ground the category cable

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

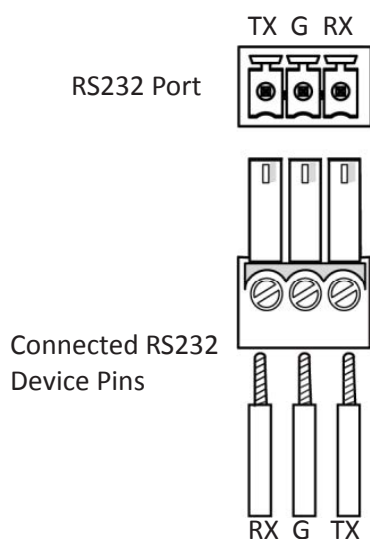Category 6 plenum; **24-4P-P-L6SH**
Category 6A plenum; **24-4P-P-L6ASH**

Category 6 NON-plenum; **24-4P-L6SH**
Category 6A NON-plenum; **24-4P-L6ASH**

TIA/EIA-568B

| Pin 1 | Orange/White |
| Pin 2 | Orange |
| Pin 3 | Green/White |
| Pin 4 | Blue |
| Pin 5 | Blue/White |
| Pin 6 | Green |
| Pin 7 | Brown/White |
| Pin 8 | Brown |

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

TX  G  RX

RS232 Port

*RS232 Wiring*
Connect the controller or device RX signal to TX on the DL-1H1A1U-WPKT-W extender. Connect the controller or device TX signal to Rx on the DL-1H1A1U-WPKT-W extender.

Connected RS232 Device Pins

RX  G  TX

# 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) <br> (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 <br> (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:103.5mm * 30mm * 46mm / 4" * .1.2" * 1.8" <br> RX:140mm * 23mm * 75mm / 5.5" * .9" * 2.9" |
| Weight | TX:163g / .36 lbs <br> RX:200g / .44 lbs |
| Warranty | 5 years |
| Certification | CE, FCC, RoHS |

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