



# DIGITALINX

VALUE-ENGINEERED DIGITAL SOLUTIONS

## DL-1H1A-WPKT-W Install Guide





## Product Overview

The Digitalinx DL-1H1A-WPKT-W HDBaseT extender set transmits HDMI, audio and RS232 over single category 6 twisted pair cable. The DL-1H1A-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 input source to be active. The Digitalinx DL-1H1A-WPKT-W is HDMI 1.4b and HDCP 2.2 compliant and supports CEC pass through. The DL-1H1A-WPKT-W HDBaseT receiver powers wall plate transmitter via HDBaseT so there is no need for an external power supply for the wall plate.

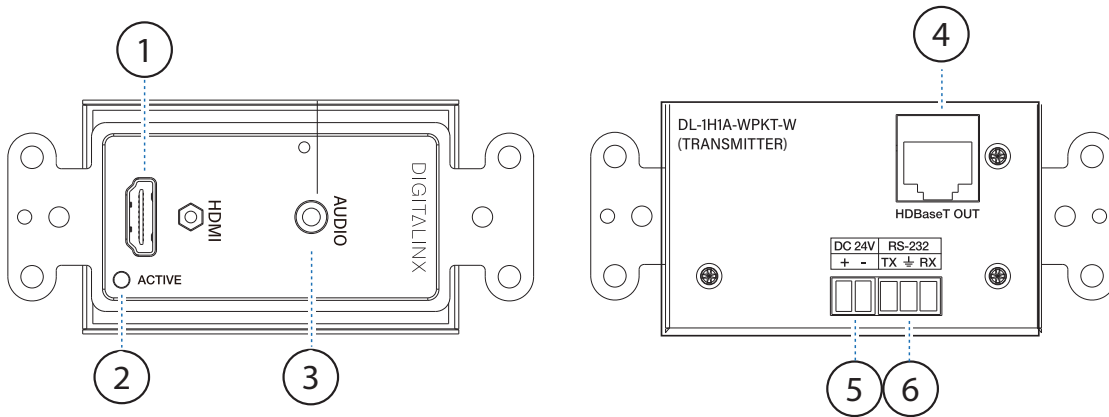
The DL-1H1A-WPKT-W is sold only as a set. The individual transmitter and receiver are not compatible with other HDBaseT devices due to proprietary PoE circuitry.

## Package Contents

- DL-1H1A-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

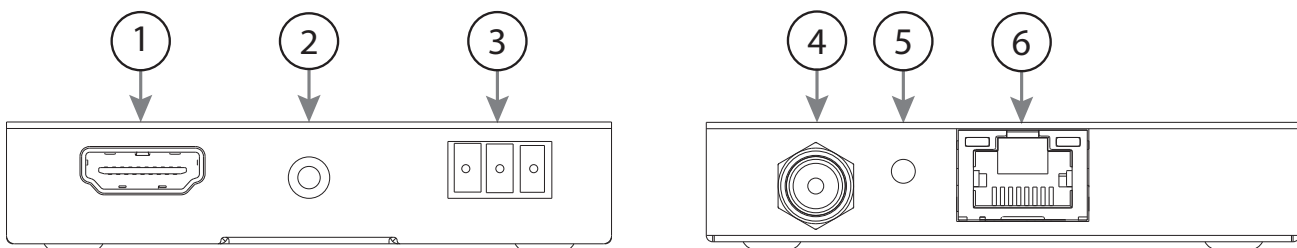
## Transmitter



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. HDBaseT OUT - HDBaseT output port
5. RS232 - Serial port for transmitting / receiving RS232 signals
6. DC24V - Phoenix connector for connecting external power supply

**Note:** The DL-1H1A-WPKT-W-TX can receive power via HDBaseT from the receiver when connected together with a Category 6 F/UTP cable

## Receiver



1. HDMI OUT - HDMI output to connect to display technology
2. AUDIO OUT - 3.5mm analog audio output port
3. RS232- Serial port for transmitting / receiving RS232 signals
4. DC24V - Locking connector for connecting external power supply
5. POWER LED - When power is received, the LED will be ON
6. HDBaseT IN - HDBaseT input port

## 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-1H1A-WPKT-W-TX) and the receiver (DL-H1A-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-H1A-WPKT-W-RX).
6. Connect an HDMI cable and any desired control accessories between the source and the transmitter (DL-1H1A-WPKT-W-TX).
7. Connect the included power supply to the DL-1H1A-WPKT-W receiver and lock the power supply to the power connector by twisting the locking collar clockwise.
8. Power on attached audio/video devices.

# Cabling Requirements

## HDBaseT Cabling

To ensure proper performance of the DL-1H1A-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

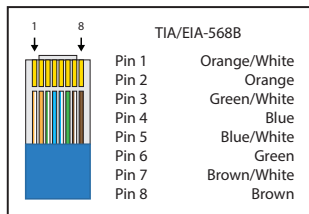
For optimized HDBaseT performance use the following Liberty Wire and Cable branded cabling;

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

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

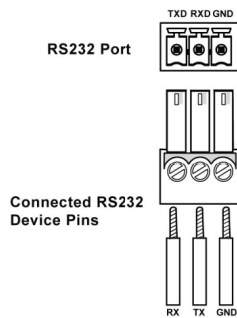
Category 6 NON-plenum; **24-4P-L6SH**

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



### 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-1H1A-WPKT-W extender. Connect the controller or device TX signal to Rx on the DL-1H1A-WPKT-W extender.

# Technical Specifications

<b>VIDEO</b>	
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
<b>AUDIO</b>	
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
<b>CONTROL</b>	
Control Port / Connector	(1) RS232 (TX) / 3 phoenix connector (1) RS232 (RX) / 3 phoenix connector
<b>OTHER</b>	
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" * .12" * 1.8" RX:124mm * 16mm * 75mm / 4.9" * .6" * 2.9"
Weight	TX:163g / .36 lbs RX:200g / .44 lbs
Warranty	5 years
Certification	CE, FCC, RoHS

Thank you for your purchase.

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number at 800-530-8998 or email us at  
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