NEXIS

USB 3.2 Gen 1 Extender 100m (Wall Plate/Box) HUE3100W





1. Introduction

This US 1-Gang standard decora wall plate can extend USB 3.2 Gen 1 5Gbps signal to a distance up to 100m/328ft via a single CAT6a cable. The wall plate (transmitter) features one USB-C and one USB-B selectable input ports, two USB-A loop out ports. The box (receiver) features one USB-C and three USB-A device ports. Bi-directional 24V PoC (Power over Cable) function allows users to only supply power to either the transmitter or the receiver.

The product can be widely used for long distance USB signal transmission between USB sources and devices like webcams, PTZ cameras, keyboards, mouse devices, USB microphones, flash sticks, printers, scanners, touch panel displays and other USB devices.

2. Features

- ☆ US 1-Gang standard decora wall plate (transmitter) and box (receiver)
- ☆ Extension of USB 3.2 Gen 1 up to 100m/328ft over CAT6a cable
- ☆ USB 3.2 Gen 1 connectivity with data transfer rate up to 5Gbps
- ☆ Backwards compatible with USB 2.0 and 1.1
- ☆ Hardware acceleration for isochronous and bulk transfer
- ☆ TX features 1x USB-B and 1x USB-C selectable input ports
- ☆ Support auto switching and manual switching modes
- ☆ Support RS-232 pass-through and API control
- ☆ Support firmware upgrade via USB-C service port
- ☆ Support FSYNC GPIO pass-through for industry camera use
- ☆ RX features 1x USB-C and 3x USB-A output ports (2x 5V/1A and 2x 5V/1.5A)
- ☆ Plug-and-play with no drivers or software download required
- ☆ Support bi-directional 24V PoC (Power over Cable). When TX or RX gets power, the other side does not need an external power supply

3. Package Contents

① 1× USB 3.2 Gen 1 Wall-Plate Extender (Transmitter)
② 1× USB 3.2 Gen 1 Box Extender (Receiver)
③ 1× 24V/3.75A Power Supply
④ 1× 2pin-3.5mm Phoenix Connector (Male)
⑤ 2× 4pin-3.5mm Phoenix Connector (Male)
⑥ 2× Mounting Ear
⑦ 4× Machine Screw (KM3*4)
⑧ 2× Machine Screw (6#-32*3⁄4)
⑨ 1× Top Panel
⑩ 1× User Manual

4. Specifications

Technical	
USB Protocol	USB 3.2 Gen 1
Transmission Rate	Up to 5Gbps
Transmission Distance	100m/328ft via CAT6a (F/FTP) cable 1.5m/4.9ft via USB cable
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge), ±4kV (Contact discharge)
Connections	
Transmitter	Input: 1× HOST 1 [USB Type C, 24-pin female] 1× HOST 2 [USB Type B, 9-pin female] Output: 2× USB-A DEVICE [USB Type A, 9-pin female] 1× HDBT-USB3 [RJ45 connector, 24V PoC] Control: 1× RS-232 [3pin-3.5mm phoenix connector] 1× FSYNC [1pin-3.5mm phoenix connector] 1× SERVICE [USB Type C, firmware update port]
Receiver	Input: 1× HDBT-USB3 [RJ45 connector, 24V PoC] Output: 3× USB-A DEVICE [USB Type A, 9-pin female] 1× USB-C DEVICE [USB Type C, 24-pin female] Control: 1× RS-232 [3pin-3.5mm phoenix connector] 1× FSYNC [1pin-3.5mm phoenix connector] 1× SERVICE [USB Type C, firmware update port]

Mechanical	
Housing	Transmitter: Plastic Front Panel + Metal Enclosure Receiver: Metal Enclosure
Color	Transmitter: White + Black Receiver: Black
Dimensions	Transmitter: 45mm [W] × 42mm [D] × 103.5mm [H] Receiver: 140mm [W] × 75mm [D] × 23mm [H]
Weight	Transmitter: 115g; Receiver: 318g
Power Supply	Input: AC 100~240V 50/60Hz Output: DC 24V/3.75A
Power Consumption	62W (Max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20%~80% relative humidity, non-condensing
Storage Humidity	10%~90% relative humidity, non-condensing

5. Application Example

