

HDBaseT-USB3 over Cat6a Extender Kit - Dual Host Switching, 7 USB 3.2 Gen 1 Ports, PoC, RS-232, FSYNC, Up to 328 ft. (100 m), TAA

MODEL NUMBER: BHDBT-U3-3A1C-K



Extends and powers USB peripherals, such as webcams and data storage devices, up to 328 ft. via Cat6a cable.

Features

HDBaseT Extender Kit Allows Installation of USB Devices Up to 328 ft. from the Source

This USB transmitter and receiver use HDBaseT technology to extend and expand the potential of your USB devices. Using a single Cat6a cable, the BHDBT-U3-3A1C-K extends up to seven USB peripherals up to 328 feet (100 meters), giving you more flexibility in placing webcams, PTZ cameras, keyboards, mice, microphones, flash drives, 3D printers, scanners, whiteboards and touchscreen displays.

Designed with the Newest HDBaseT 3.0 Technology

The BHDBT-U3-3A1C-K extension kit uses the latest Valens chipset to provide a modern solution to USB extension. Its USB-C and USB-A ports support USB 3.2 Gen 1 data transfer rates up to 5 Gbps and are backward compatible with previous USB generations. The extension kit also supports both RS-232 and FSYNC GPIO pass-through, making the BHDBT-U3-3A1C-K ideal for conference halls, auditoriums, lecture halls, museums, exhibition rooms and anywhere else that requires high-quality transmission across long distances.

Dual USB Host Ports Allow Switching Between Host Devices

The transmitter features USB-C and USB-B host ports for connecting laptops, PCs, media servers or other host devices. With the touch of a button, you can instantly switch between the two hosts and share the connected USB devices between them. LEDs indicate which host is currently being used.

Built-In PoC Technology Provides Power to Avoid Bulky External Power Bricks

Bi-directional 24V Power over Cable (PoC) support powers the entire installation over Cat6a cable. Connect the included power supply at either the transmitter or the receiver end. LEDs on both the transmitter and receiver light up to indicate the system is receiving power and a USB signal is being transmitted. PoC helps you avoid the hassle of a bulky power brick and gives you the freedom to place one end where needed without worrying about finding a nearby AC outlet.

Supports API Command Control and FSYNC GPIO

Connect the RS-232 or Service port to a PC, then open a Serial Command tool on the PC to control the BHDBT-U3-3A1C-K using ASCII commands. FSYNC GPIO pass-through is supported for controlling industrial cameras and other audio/video equipment.

Plug-and-Play Convenience and Easy Installation

Highlights

- Extends USB 3.2 Gen 1 signals up to 100 meters at data speeds up to 5 Gbps
- Transmitter button allows one-touch switching between USB-C and USB-B host ports
- 24V Power over Cable (PoC) powers transmitter and receiver from either end
- Supports RS-232 pass-through and FSYNC GPIO pass-through for industry camera use

System Requirements

- USB 3.2 Gen 1 source device (all connected devices and cabling must support USB 3.2 Gen 1 standards to achieve USB 3.2 Gen 1 speeds)
- Cat6a F/FTP cabling up to 328 ft. (100 m)
- USB peripherals, such as webcams, interactive whiteboards, security and monitoring devices, remote data storage
- AC power outlet on a wall, PDU or UPS system

Package Includes

- USB 3.2 Gen 1 transmitter
- USB 3.2 Gen 1 receiver
- External power supply (Input: 100–240V, 50/60 Hz, 2A; Output: 24V 3.75A 90W) with 4 ft. (1.2 m) cord
- (4) International power adapters (North America, Australia, Europe, United Kingdom)
- (2) 3.5 mm Phoenix connectors
- Mounting hardware
- Owner's manual



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The BHDBT-U3-3A1C-K requires no software or drivers to install, making setup simple. The transmitter and receiver mount to a wall using the included brackets. **TAA-Compliant for GSA Schedule Purchases**
The BHDBT-U3-3A1C-K is compliant with the Federal Trade Agreements Act (TAA), which makes it eligible for GSA (General Services Administration) Schedule and other federal procurement contracts.

Specifications

OVERVIEW	
UPC Code	037332294425
Product Type	USB Extender
Technology	Cat6a; HDBaseT; USB 3.x
Country/Region	Global
Host Connector	USB B (FEMALE)
VIDEO	
HDR Support	No
3D Video Supported	No
INPUT	
AC Power Adapter Plug(s)	AS/NZS 3112 Australia; BS 1363 UK; CEE 7/16 Schuko; NEMA 1-15P North America
AC Power Adapter Input Specs (V / Hz / A)	100-240V / 50/60Hz / 2.0A
AC Power Adapter Output Specs (V / A)	24V/3.75A
AC Power Adapter Cord Length (ft.)	3.94
AC Power Adapter Cord Length (m)	1.2
Voltage Compatibility (VAC)	100-240
Bus Powered	No
POWER	
Power Source Type	AC Adapter
Power Over Cable (PoC) Support	Yes
Power Consumption (Watts)	90.00
CONNECTIONS	
Side A - Connector 1	USB B (FEMALE)
Side A - Connector 2	(3) USB C (FEMALE)
Side A - Connector 3	RJ45 (FEMALE)
Side A - Connector 4	(2) USB A (FEMALE)
Side B - Connector 1	RJ45 (FEMALE)



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Side B - Connector 2	(3) USB A (FEMALE)
Side B - Connector 3	(2) USB C (FEMALE)
Connector Plating	Nickel
USER INTERFACE, ALERTS & CONTROLS	
LED Indicators	TRANSMITTER LEDS: POWER LED: GREEN- THE UNIT IS RECEIVING POWER; LINK GREEN LED: ON: TRANSMITTER & RECEIVER ARE CONNECTED AND LINKED. FLASHING: TRANSMITTER & RECEIVER LINK IS OFF DUE TO USB LOW-POWER MODE. OFF: TRANSMITTER & RECEIVER ARE NOT CONNECTED; USB LED GREEN: ON: USB SIGNAL IS DETECTED. OFF: USB SIGNAL IS NOT DETECTED. RECEIVER LEDS: POWER LED: GREEN- THE UNIT IS RECEIVING POWER; LINK GREEN LED: ON: TRANSMITTER & RECEIVER ARE CONNECTED AND LINKED. FLASHING: TRANSMITTER & RECEIVER LINK IS OFF DUE TO USB LOW-POWER MODE. OFF: TRANSMITTER & RECEIVER ARE NOT CONNECTED; USB LED GREEN: ON: USB SIGNAL IS DETECTED. OFF: USB SIGNAL IS NOT DETECTED.
PHYSICAL	
Material of Construction	Metal
Housing Color	Black
Included Mounting Accessories	(4) Mounting Ears; (8) Machine Screws
Total Number of Ports	13
Rackmountable	No
Receiver Unit Dimensions (hwd / cm.)	2.3 x 14 x 7.5
Receiver Unit Dimensions (hwd / in.)	0.91 x 5.51 x 2.95
Receiver Unit Weight (kg)	0.253
Receiver Unit Weight (lbs.)	0.557
Shipping Dimensions (hwd / in.)	2.95 x 7.28 x 9.64
Shipping Dimensions (hwd / cm)	7.50 x 18.50 x 24.50
Shipping Weight (lbs.)	3.08
Shipping Weight (kg)	1.40
Transmitter Unit Dimensions (hwd / cm.)	2.3 x 14 x 7.5
Transmitter Unit Dimensions (hwd / in.)	0.91 x 5.51 x 2.95
Transmitter Unit Weight (kg)	0.260
Transmitter Unit Weight (lbs.)	0.573
Unit Dimensions (hwd / in.)	0.905 x 2.953 x 5.511
Unit Dimensions (hwd / cm)	8.00 x 15.00 x 23.50
Unit Packaging Type	Box
Unit Weight (lbs.)	1.13
Unit Weight (kg)	0.51
ENVIRONMENTAL	



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Operating Temperature Range	32° to 104°F (0° to 40°C)
Storage Temperature Range	-4° to 140°F (-20° to 60°C)
Relative Humidity	20 to 90% RH, Non-Condensing
Operating Humidity Range	20 to 80% RH, Non-Condensing
Storage Humidity Range	10 to 90% RH, Non-Condensing
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge), ±4kV (Contact discharge)
COMMUNICATIONS	
Maximum Data Rate	5 Gbps
Signal Range (ft.)	328
Signal Range (m)	100
Transmission Distance	100m/328ft via CAT6a (F/FTP) cable, 1.5m/4.9ft via USB cable
EDID Compatible	No
IR Remote Extension Support	No
RS-232 Serial Extension Support	Yes
Consumer Electronics Control (CEC) Supported	No
FEATURES & SPECIFICATIONS	
USB Specification	USB 3.2 Gen 1 (up to 5 Gbps)
10/100 Ethernet Extension Support	No
Integrated/Removable Cable	No
MST Support	No
Mounting Accessory Included	Yes
Multi-Resolution Support	No
Driver Required	No
Recommended Category Cable	Cat6a
DIN Mountable	No
STANDARDS & COMPLIANCE	
External Power Supply Certifications	CE; FCC; PSE; TUV; UL; WEEE; cUL
Product Certifications	CAN/CSA-C22.2 No. 62368-1 (Canada); EN 55032; EN 55035; ICES (Canada); IEC 62368-1; UL 62368-1
Product Compliance	CE (Europe); FCC Part 15 Class B (USA); REACH; RoHS3; Trade Agreements Act (TAA); UKCA; WEEE
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	1-year limited warranty

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