



BG-USB3-LR100

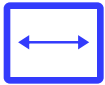
USB 3.0 OVER HDBASET EXTENDER (POC, RS-232, GPIO & UP TO 100M/328FT OVER CAT6A CABLE)

The BG-USB3-LR100 USB 3.0 Extender is an essential tool for extending USB connections over long distances, capable of transmitting signals up to 100 meters (328 feet) using a single CAT6a cable. Designed for reliability and performance, this extender ensures high-speed data transfer with rates up to 5Gbps, making it ideal for various applications, including industrial settings and large-scale installations.

The transmitter features a USB 3.0 Type B input, FSYNC GPIO input, and RS-232 pass-through, while the receiver offers four USB 3.0 Type A outputs, FSYNC GPIO output, and RS-232 pass-through. This setup supports bi-directional 24V Power over Cable (PoC), simplifying power management and installation.



FEATURES



LONG DISTANCE

Extends USB 3.0 connections up to 100 meters (328 feet) over CAT6a cable



FAST TRANSFER RATES

Provides USB 3.0 connectivity with data transfer rates up to 5Gbps



BACKWARD COMPATIBLE

Compatible with USB 2.0 and USB 1.1 devices



BI-DIRECTIONAL POC

Supports bi-directional 24V Power over Cable (PoC)



PLUG-AND-PLAY

Easy plug-and-play setup with no driver or settings installation required



CAMERA APPLICATIONS

Includes RS-232 and FSYNC GPIO pass-through for camera applications



TECH SPECIFICATIONS

Technical

USB Protocol	USB 3.0
Transmission Rate	Up to 5Gbps
Network Bandwidth	10G
Transmission Distance	100m/328ft over CAT6a (F/FTP) cable
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge), ±4kV (Contact discharge)

Connection

Transmitter

- Inputs:**
1 × USB HOST [USB-B, 9pin Female]
- Outputs:**
1 × HDBT OUT [RJ45, Female]
- Control:**
1 × RS-232 [3pin-3.5mm Phoenix Connector]
1 × FSYNC [1pin-3.5mm Phoenix Connector]
1 × SERVICE [USB-C, Update Port]

Receiver

- Inputs:**
1 × HDBT IN [RJ45, Female]
- Outputs:**
4 × USB Devices [USB-A, 9pin Female]
- Controls:**
1 × RS-232 [3pin-3.5mm Phoenix Connector]
1 × FSYNC [1pin-3.5mm Phoenix Connector]
1 × SERVICE [USB-C, Update Port]

Mechanical

Housing	Metal Enclosure
Color	Black
Dimensions (W x D x H)	Transmitter / Receiver: 3.3in x 3.9in x 1in [85mm x 100mm x 25.5mm]
Weight	Transmitter: 0.56 lbs [253g], Receiver: 0.57 lbs [260g]
Power Supply	Input: AC 100~240V 50/60Hz, Output: DC 24V/2A
Power Consumption	PoC Power Supply: 40W (Max)
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)



Industry-Leading Warranty & Support

BZBGEAR Pro AV products and Cameras come with a three-year warranty. An extended two-year warranty is available for our Cameras upon registration for a total of five years. We pride ourselves in our Customer Service and seven-days-a-week Tech Support.

