

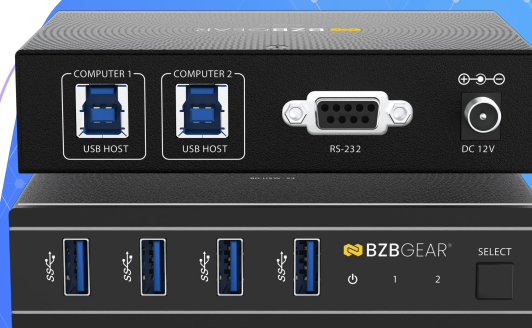


BG-USX-B100BC

DUAL-HOST USB 3.2 TYPE-A/B/C SWITCHER & HDBASET 3.0 EXTENDER KIT WITH BI-DIRECTIONAL POC/RS-232 UP TO 328FT

The BG-USX-B100BC is a professional USB 3.2 Gen 1 extender kit that extends high-speed USB connectivity up to 100m (328ft) over a single CAT6a cable. Supporting data transfer rates up to 5Gbps, it enables reliable long-distance connectivity for USB peripherals while remaining fully backward compatible with USB 2.0 and USB 1.1 devices. With selectable USB-C and USB-B host inputs, multiple USB device ports, and plug-and-play operation, it provides a flexible solution for professional AV, industrial, and enterprise installations.

Designed for demanding applications, the BG-USX-B100BC features bi-directional 24V Power over Cable (PoC), automatic and manual host switching, RS-232 pass-through, FSYNC GPIO support, API control, and hardware acceleration for stable isochronous and bulk USB transfers. Whether extending PTZ cameras, touch displays, industrial cameras, or conferencing peripherals, the system delivers reliable performance with simplified installation.



FEATURES



100M USB 3.2 GEN 1 EXTENSION

Extends high-speed USB signals up to 100m (328ft) over a single CAT6a cable with data rates up to 5Gbps



FLEXIBLE HOST & DEVICE CONNECTIVITY

Features selectable USB-C and USB-B host inputs and provides one USB-C plus three USB-A device ports for connecting multiple peripherals



BI-DIRECTIONAL 24V POWER OVER CABLE

Either endpoint can power the complete system, reducing installation complexity and minimizing power supply requirements



OPTIMIZED HIGH-BANDWIDTH PERFORMANCE

Hardware acceleration ensures reliable isochronous and bulk USB transfers for PTZ cameras, webcams, storage devices, touch panels, and industrial equipment



PROFESSIONAL SYSTEM INTEGRATION

Supports RS-232 pass-through, FSYNC GPIO, API commands, automatic/manual host switching, and firmware updates for advanced control applications



PLUG-AND-PLAY DEPLOYMENT

Driver-free operation with backward compatibility for USB 2.0 and USB 1.1 devices enables fast installation across a wide range of operating systems



TECH SPECIFICATIONS

Technical

USB Protocol	USB 3.2 Gen 1
Max Data Rate	Up to 5Gbps
Transmission Distance	Up to 100m / 328ft via CAT6a (F/FTP); up to 1.5m / 4.9ft via USB cable
ESD Protection	IEC 61000-4-2: ±8kV (air discharge), ±4kV (contact discharge)

Connections

Transmitter Host Inputs	1x USB-C (24-pin, female), 1x USB-B (9-pin, female)
Transmitter Device Outputs	1x USB-C (24-pin, female), 2x USB-A (9-pin, female)
Transmitter Extension Port	1x HDBT-USB3 (RJ45, 24V PoC)
Transmitter Control Ports	1x RS-232 (3-pin 3.5mm Phoenix), 1x FSYNC (1-pin 3.5mm Phoenix)
Transmitter Service Port	1x USB-C (firmware update)
Receiver Extension Input	1x HDBT-USB3 (RJ45, 24V PoC)
Receiver Device Outputs	1x USB-C (24-pin, female), 3x USB-A (9-pin, female)
Receiver Control Ports	1x RS-232 (3-pin 3.5mm Phoenix), 1x FSYNC (1-pin 3.5mm Phoenix)
Receiver Service Port	1x USB-C (firmware update)

Mechanical

Housing	Metal enclosure
Color	Black
Dimensions (W x D x H)	5.5 x 3 x 0.91 in [140 x 75 x 23 mm] (Transmitter / Receiver)
Weight	Transmitter: 0.69 lb [313 g]; Receiver: 0.70 lb [318 g]
Dimensions (W x D x H)	5.5 x 3 x 0.91 in [140 x 75 x 23 mm] (Transmitter / Receiver)
Power Supply	AC 100–240V, 50/60Hz; DC 24V / 3.75A output
Power Consumption	Transmitter: 23W (max); Receiver: 35W (max)
Operating Temperature	32°F to 104°F / 0°C to 40°C
Storage Temperature	–4°F to 140°F / –20°C to 60°C
Operating Humidity	20%–80% RH, non-condensing
Storage Humidity	10%–90% RH, non-condensing

Limited Product Warranty Terms

Pro Line: 5-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Essential Line: 3-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Cables: Lifetime Limited Product Warranty.

For complete warranty information, please visit bzbgear.com/warranty.
For questions, please call 1.888.499.9906 or email support@bzbgear.com.

Pro Line Products
5-YEAR WARRANTY
Essential Line Products
3-YEAR WARRANTY
Cables Products
LIFETIME WARRANTY

