

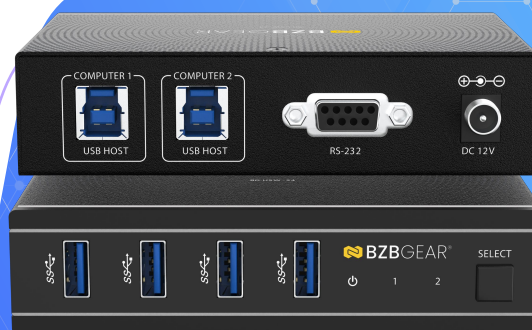


## BG-USX-WP100BC

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

The BG-USX-WP100BC is a professional USB 3.2 Gen 1 extender system that transmits high-speed USB signals up to 100 meters (328 feet) over a single CAT6A (F/FTP) cable. Featuring a 1-gang wall plate transmitter and compact receiver, it supports USB data rates up to 5Gbps while maintaining backward compatibility with USB 2.0 and USB 1.1 devices. With multiple USB host and device connections, it provides a flexible solution for extending cameras, storage devices, touchscreens, keyboards, and other USB peripherals in professional AV and enterprise environments.

Designed for clean, reliable installations, the BG-USX-WP100BC includes bi-directional 24V Power over Cable (PoC), RS-232 pass-through, FSYNC GPIO synchronization, API control support, and hardware acceleration for stable USB performance. Its wall plate design simplifies integration into conference rooms, classrooms, control rooms, and commercial spaces while delivering dependable long-distance USB connectivity.



## FEATURES



### 100M EXTENSION

Extends USB signals up to 328ft (100m) over a single CAT6A (F/FTP) cable while supporting transfer speeds up to 5Gbps



### FLEXIBLE CONNECTIVITY

Features selectable USB-C and USB-B host inputs, dual USB-A loop-out ports, and a receiver with one USB-C plus three USB-A device ports



### BI-DIRECTIONAL POC

Supports 24V PoC, allowing either endpoint to power the entire system for simplified installations



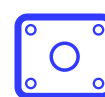
### CONTROL INTEGRATION

Includes RS-232 pass-through, API command support, and FSYNC GPIO synchronization for AV, automation, and industrial applications



### HIGH-SPEED USB

Hardware acceleration ensures stable transmission of both bulk and isochronous USB data for demanding peripherals



### WALL PLATE INSTALLATION

Combines a 1-gang wall plate transmitter with a compact receiver for clean, professional installations in commercial environments



# TECH SPECIFICATIONS

## Technical

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| USB Protocol          | USB 3.2 Gen 1                                                          |
| 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)          |
| Power Supply          | DC 24V / 3.75A (AC 100–240V, 50/60Hz adapter)                          |
| Max Power Consumption | 62W                                                                    |

## Transmitter Connections

|                    |                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------|
| USB HOST Inputs    | 1x USB-C (24-pin female), 1x USB-B (9-pin female)                                       |
| USB DEVICE Outputs | 2x USB-A (5V/1A)                                                                        |
| Link Interface     | 1x RJ45 (HDBT-USB3, PoC)                                                                |
| Control Ports      | 1x RS-232 (3-pin Phoenix), 1x FSYNC (1-pin Phoenix), 1x USB-C SERVICE (firmware update) |

## Receiver Connections

|               |                                                                                         |
|---------------|-----------------------------------------------------------------------------------------|
| Link Input    | 1x RJ45 (HDBT-USB3, PoC)                                                                |
| USB Outputs   | 1x USB-C DEVICE, 3x USB-A DEVICE (5V/1A & 5V/1.5A)                                      |
| Control Ports | 1x RS-232 (3-pin Phoenix), 1x FSYNC (1-pin Phoenix), 1x USB-C SERVICE (firmware update) |

## Mechanical

|            |                                                                                       |
|------------|---------------------------------------------------------------------------------------|
| Housing    | TX: Plastic front panel + metal enclosure; RX: Metal enclosure                        |
| Color      | TX: White + Black; RX: Black                                                          |
| Dimensions | TX: 1.8 x 1.7 x 4.1 in [45 x 42 x 103.5 mm]; RX: 5.5 x 3 x 0.91 in [140 x 75 x 23 mm] |
| Weight     | TX: 0.25 lb [115g]; RX: 0.70 lb [318g]                                                |

## Environmental

|                       |                               |
|-----------------------|-------------------------------|
| Operating Temperature | 32°F ~ 104°F / 0°C ~ 40°C     |
| Storage Temperature   | -4°F ~ 140°F / -20°C ~ 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](https://bzbgear.com/warranty).  
For questions, please call 1.888.499.9906 or email [support@bzbgear.com](mailto:support@bzbgear.com).

Pro Line Products  
**5-YEAR WARRANTY**

Essential Line Products  
**3-YEAR WARRANTY**

Cables Products  
**LIFETIME WARRANTY**