

B-350-USB2-CATX USB 2.0 OVER SINGLE CAT 5E/6/7 EXTENDER

1. INCLUDED

- B-350-USB2-CATX Transmitter & Receiver Pair
- (1) AC power adapter 24VDC, 1A
- (1) USB 2.0 Cable
- Quick Start Guide

2. REQUIREMENTS

- USB 1.1 or 2.0 compatible computer with a USB compliant operating system
- USB 1.1 or 2.0 compatible device(s)
- Solid core CAT 5e/6/7

3. FEATURES

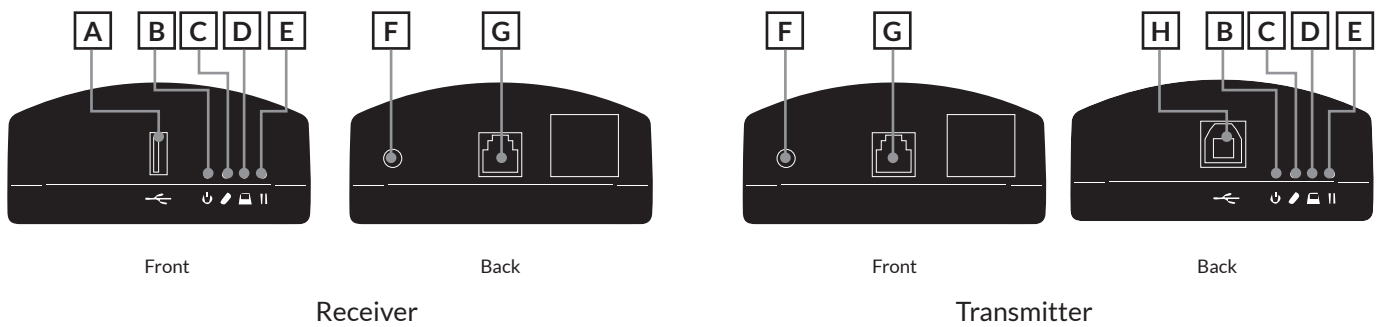
The B-350-USB2-CATX is ideal for extending USB peripherals including: keyboards, mouse devices, interactive white boards, flash drives, hard drives, audio devices, web cameras and any other USB 1.1 or 2.0 devices. Key features include:

- Flexible power—connect the power adapter to either the transmitter or receiver
- The receiver supports up to 500mA high current mode for USB 2.0 power requirements
- Utilizes CAT 5e/6/7 cable for convenient installation
- Reliable operation with USB 1.1 and 2.0 devices and hubs
- Transparent USB extension
- True plug and play; no software drivers required
- Works with all major operating systems: Windows®, macOS™, Linux® and Chrome OS™

4. IMPORTANT NOTES

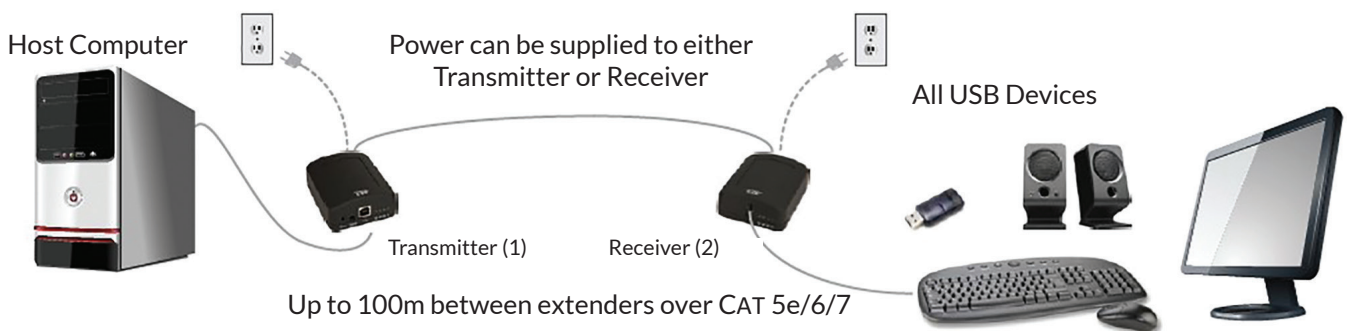
- Only the transmitter **OR** receiver must be powered. **Never** power both devices at the same time.
- The B-350-USB2-CATX enables users to extend USB devices up to 100M/330ft.
- As with any Binary™ extender, we recommend that you use the wiring pattern: TIA-568B.
- The extender system cannot be daisy chained together with additional extender systems. A system can have only one transmitter and one receiver.

5. DEVICE LAYOUT



- A. **Receiver USB Port:** Type A USB port to connect to extended device such as a mouse, keyboard, or Game controller
 - B. **Power LED:** Lights blue when the unit received power
 - C. **Link LED:** Lights green when a communication link between the transmitter and receiver is established
 - LED does not light when no link is detected
 - D. **Host LED:** Lights green when the transmitter and receiver is recognized by the host device
 - LED blinks when transmission is suspended
 - E. **Activity LED:** Lights orange when data is transmitted between the transmitter and receiver
- NOTE:** Mode and Config Ports (under label) are reserved for manufacturer use only.
- F. **DC Power Port:** Connect AC/DC power supply
 - G. **RJ45 Link:** To connect RX and TX with CAT 5e/6/7 cables via RJ45 connector
 - H. **Transmitter USB Port:** Type B USB connector to connect to host device, such as a PC, or game system.

6. HOW TO CONNECT



1. Connect the power adapter to **either** the transmitter or receiver. **Do NOT power both devices at the same time.**
2. Connect the transmitter unit (USB type-B connector) to the host computer or USB hub using the provided USB 2.0 A to B cable.
3. Connect the RJ45 ports on the **1** transmitter and **2** receiver units using solid-core CAT 5e/6/7 cabling. The green RJ45 LED on the receiver will illuminate to indicate it is connected to and powered by the transmitter.
4. Connect the USB device to the receiver.

7. TROUBLESHOOTING

Problem	Cause	Solution
USB device is attached but not functioning.	<ul style="list-style-type: none"> The USB device requires drivers that were not installed. The USB device does not support USB hubs. The USB device has malfunctioned. 	<ul style="list-style-type: none"> Install the required USB device driver on the computer operating system prior to attaching the USB device into the receiver. Please see your USB device manufacturer's website for details. In the Universal Serial Bus controllers section of Device Manager, check that the USB device has enumerated. Contact Technical Support for assistance.
USB device is attached but not functioning.	<ul style="list-style-type: none"> Overcurrent condition has occurred because the USB device has drawn more current than can be supplied. The operating system may generate a status bubble indicating an issue. 	<ul style="list-style-type: none"> Power cycle receiver. Wait 30 seconds and plug power back into the unit. If overcurrent continues to occur, either:(a) the USB device may use more power than the USB specification, or (b) the USB device may be damaged. Contact Technical Support for assistance.
The Link LED on the transmitter and receiver blink intermittently.	<ul style="list-style-type: none"> The CAT 5e/6/7 cable connecting the transmitter and receiver is faulty. 	<ul style="list-style-type: none"> Ensure the CAT 5e/6/7 cable is of decent quality. Contact Tech Support.
The Link LED on the transmitter and receiver is off.	<ul style="list-style-type: none"> The receiver is not receiving power. The transmitter is not receiving power. The link cable is malfunctioning. The B-350-USB2-CATX is malfunctioning. 	<ul style="list-style-type: none"> Confirm that either the transmitter or receiver is receiving power. Ensure power adapter is properly connected to the transmitter or receiver. Not both. Ensure the CAT 5e/6/7 cabling between the transmitter and receiver are properly installed. Contact Technical Support for assistance.

8. SPECIFICATIONS:

USB Device Support	Supports low-speed USB 1.1	Yes
	Supports full-speed USB 1.1	Yes
	Supports high-speed USB 2.0	Yes
Range	100M/330ft	
Power	AC power adapter 24VDC, 1A (provided)	
USB Hub Support	Any single chain can include up to 4 USB hubs plus 1 B-350-USB2-CATX	
USB Host Support	EHCI (USB 2.0) and OHCI/UHCI (USB 1.1)	
Maximum Current Available to USB Device at Receiver	500mA	
TRANSMITTER		
USB Connector	1 x USB Type B Receptacle	
Link Connector	1 x RJ45	
Dimensions	65 mm x 87.5 mm x 30 mm (2.56" x 3.45" x 1.18")	
RECEIVER		
USB Connector	1 x USB Type A Receptacle	
Link Connector	1 x RJ45	
Dimensions	65 mm x 87.5 mm x 30 mm (2.56" x 3.45" x 1.18")	
ENVIRONMENTAL		
Operating Temperature Range	32°F to 122°F (0°C to 50°C)	
Storage Temperature Range	-4°F to 158°F (-20°C to 70°C)	
Operating Humidity	20% to 80% relative humidity, non-condensing	
Storage Humidity	10% to 90% relative humidity, non-condensing	
COMPLIANCE		
EMC	FCC (Class A), IC (Class A)	
Immunity	CE Criteria A	
Environmental	RoHS2 (CE)	
Safety	Flammability V-0	
SUPPORT		
Warranty	2-year	

CERTIFICATION, COMPLIANCE AND WARRANTY INFORMATION



CE Statement

We, WirePath Home Systems LLC, declare under our sole responsibility that the B-350-USB2-CATX to which this declaration relates, is in conformity with European Standard EN 55022 Class A, EN 61000 and EN 55024.

WEEE Statement

The European Union has established regulations for the collection and recycling of all waste electrical and electronic equipment (WEEE). Implementation of WEEE regulations may vary slightly by individual EU member states. Please check with your local and state government guidelines for safe disposal and recycling or contact your national WEEE recycling agency for more information.

Product Operation and Storage

Please read and follow all instructions provided with this product, and operate for intended use only. Do not attempt to open the product casing as this may cause damage and will void warranty. Use only the power supply provided with this product. When not in use, product should be stored in a dry location between -20°C and 70°C. Detailed product user guides are available on the product support tab at www.snapav.com.

2 Year Limited Warranty

This Binary product has a 2-Year limited warranty. This warranty includes parts and labor repairs on all components found to be defective in material or workmanship under normal conditions of use. This warranty shall not apply to products that have been abused, modified or disassembled. Products to be replaced under this warranty must be returned to SnapAV or a designated service center with prior notification and an assigned return authorization number (RA).

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BINARY®

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