BINARY

Quick Start Guide

B-300-USB2-CATX USB 2.0 Over Single Cat5e/6 Extender

Included:

- Local & Remote Extender
- (1) 24 Volt 1 Amp AC Power Adapter
- (1) USB 2.0 Cable
- Quick Start Guide

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 CAT5e or CAT6, UTP/STP

Features:

The B-300-USB2-CATX is ideal for extending USB peripherals including: keyboards, mouse devices, interactive whiteboards, 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 local or remote extender
- 500mA supplied to USB devices
- Utilizes Cat5e cable for convenient installation
- Throughputs of up to 480Mbps
- 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®, Mac OS X®, and Linux®

Important Notes:

- Never power both the local and remote extender at the same time.
- The B-300-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 local extender and one remote extender.

How to Connect:

1. Connect the power adapter to either the local or remote extender.

2. Connect the local unit (USB type-B connector) to the host computer or USB hub.

3. Connect the RJ45 ports on the **1** local and **2** remote units using solid-core Cat5e/6 cabling. The green RJ45 LED on the remote unit will illuminate to indicate it is connected to the local unit, and is powered

4. Connect the remote unit to the USB device using the provided USB 2.0 cable.

1 Local Extender
USB Type-B

2 Remote Extender
USB Type-A

Troubleshooting:

Problem	Cause	Solution
USB device is attached but not functioning.	• The USB device requires drivers that were not installed. • The USB device does not support USB hubs. • The USB device has malfunctioned.	• Install the required USB device driver on the computer operating system prior to attaching the USB device into the remote extender. 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.	• Overcurrent condition has occured because the USB device has drawn more current than can be supplied per USB specification (500mA). The operating system may generate a status bubble indicating an issue.	• Power cycle remote extender. 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 LED on the local and remote extenders blink intermittently.	• The Cat5e cable connecting the local extender and remote extender is faulty. • Firmware mismatch between the local and remote extenders	• Ensure the Cat5e cable is of decent quality. • Use a different local and remote extender pair which have the same firmware revision. • Upgrade the local and remote extender firmware; contact Technical Support.
The LED on the local and remote extender is off.	• The remote extender is not receiving power. • The local extender is not receiving power. • The link cable is malfunctioning. • The B-300-USB2-CATX is malfunctioning.	• Confirm the host computer is on and providing power to the local extender. • Ensure power adapter is properly connected to the local or remote extender. Not both. • Ensure the Cat5e cabling between the local and remote extenders is properly installed. • Contact Technical Support for assistance.

Specifications:

USB Device Support and Throughputs	Supports low-speed USB 1.1 (1.5 Mbps)	Yes
	Supports full-speed USB 1.1 (up to 12 Mbps)	Yes
	Supports high-speed USB 2.0 (480 Mbps)	Yes
Range	100M/330ft	
Power	24V/1A AC power Adapter (provided)	
USB Hub Support	Any single chain can include up to 4 USB hubs plus 1 B-300-USB2-CATX	
USB Host Support	EHCI (USB 2.0) and OHCI/UHCI (USB 1.1)	
Maximum Current Available to USB Device at Remote Extender	500mA	
LOCAL EXTENDER		
USB Connector	1 x USB Type B Receptacle	
Link Connector	1 x RJ45	
Dimensions	85 mm x 57 mm x 28 mm (3.35" x 2.25" x 1.10")	
REMOTE EXTENDER		
USB Connector	1 x USB Type A Receptacle	
Link Connector	1 x RJ45	
Dimensions	85 mm x 57 mm x 28 mm (3.35" x 2.25" x 1.10")	
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		
Warrranty	1-year	

1-Year Limited Warranty

This Binary™ Product has a One-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 repaired 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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