

# BINARY

## Quick Start Guide

### B-300-USB1-CATX USB 1.1 Over Single Cat5e/6 Extender

#### Product Features:

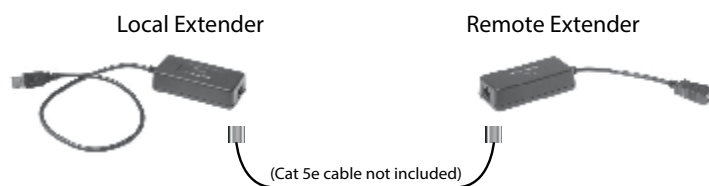
- Extends USB 1.1 signals up to 85M/280ft\*
- Transparent USB extension
- No software or drivers required
- No external power required
- True plug and play, no software drivers required.
- Works with all major operating systems.

#### Included:

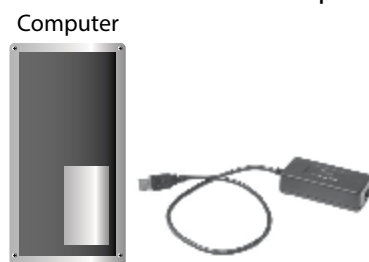
- Local Extender
- Remote Extender
- Quick Start Guide

#### How to Connect:

- 1 Place units where desired, and connect the Cat5e (solid core) extension link cable to the Link ports (RJ45) on the local extender and remote extender.



- 2 Connect the local extender to the computer.



- 3 Attach the USB device to the remote extender.



#### 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

#### Important Notes:

- \*The B-300 USB 1.1 model enables users to extend USB devices up to 40M/131ft. Extension distances up to 85M/280ft may be achievable with low-speed HID devices such as keyboards and mice.
- It is strongly recommended that the wiring pattern: TIA-568B be used for extension of media.
- Extension length is reduced for each USB hub added to the system. There is a 13.2M/43ft reduction in extension distance for each USB hub added to the system. This includes hubs added on the local extender or remote extender side.
- The extender system cannot be daisy chained together with additional extender systems. A system can have only one local extender and one remote extender.

#### Troubleshooting:

PROBLEM	CAUSE	SOLUTION
The USB device does not operate correctly.	<ul style="list-style-type: none"><li>• The USB device is malfunctioning.</li><li>• The computer does not recognize the USB device.</li><li>• The application software for the device is not operating.</li><li>• The extender is malfunctioning.</li></ul>	<ol style="list-style-type: none"><li>1. Un-install and re-install the driver for the USB device.</li><li>2. Update the driver for the USB device.</li><li>3. Directly connect the USB device to the Host to verify the USB device operates correctly.</li><li>4. Contact Technical Support.</li></ol>
The USB device is detected as an "Unknown Device" in the operating system.	<ul style="list-style-type: none"><li>• The USB device's timing is outside of the USB 1.1 specification.</li><li>• The extender is malfunctioning.</li></ul>	<ol style="list-style-type: none"><li>1. Connect the remote extender to the local extender using a patch cable.</li><li>2. Unplug the local extender from the host and wait 15 seconds. Then plug the local extender back into the host.</li><li>3. Contact Technical Support.</li></ol>
The USB device is detected as using too much power in the operating system.	<ul style="list-style-type: none"><li>• The USB device needs more power than the extender can support.</li><li>• The host is not providing enough power to the extender.</li></ul>	<ol style="list-style-type: none"><li>1. Connect the local extender to a different USB port on the host.</li><li>2. Connect a self powered USB hub between the remote extender and the USB device.</li></ol>

## 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 (only up to 12 Mbps)
Range for high-speed devices (such as smart boards)	40M/131ft	
Range for low-speed devices	85M/280ft	
Powered by USB	Yes	
USB Hub Support	Any single chain can include up to 3 USB hubs depending on which USB devices are being extended. Extension distance will be reduced with each hub added to the system.	
USB Host Support	EHCI (USB 2.0) and OHCI/UHCI (USB 1.1)	
Maximum Current Available to USB Device at Remote Extender	400mA when local extender is supplied with 700mA	
<b>LOCAL EXTENDER</b>		
USB Connector	1 x USB Type A Plug	
Link Connector	1 x RJ45	
Dimensions	85 mm x 40 mm x 22 mm (3.34" x 1.57" x 0.87")	
<b>REMOTE EXTENDER</b>		
USB Connector	1 x USB Type A Receptacle	
Link Connector	1 x RJ45	
Dimensions	85 mm x 40 mm x 22 mm (3.34" x 1.57" x 0.87")	
<b>ENVIRONMENTAL</b>		
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	
<b>COMPLIANCE</b>		
EMC	FCC (Class A), CE (Class A)	
Environmental	RoHS2 (CE)	
Safety	CPSIA, Flammability V-1	
<b>SUPPORT</b>		
Warranty	1-year	

## Contacting Technical Support:

Phone: (866) 838-5052  
E-mail: support@snapav.com



### 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 which 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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