

# USB KVM Extender via CAT5: Extend up to 1,000 Feet

XTENDEX®

## Extend USB keyboard, USB mouse and VGA monitor up to 1,000 feet

- Sharpest and clearest VGA quality over CAT5 of any manufacturer.
- Supports local and remote access.
- Automatically adjusts the video quality to compensate for varying lengths of CAT5/5e/6 cable.
- Simple On Screen Display (OSD) menus allow users to configure the extender, adjust for video skew, and fine-tune video quality for optimal video resolution.
- Supports resolutions to 1920x1440.
- Keyboard and mouse are hot-pluggable.
- Keep-alive keyboard/mouse emulation for flawless operation.
- Color-coded LEDs on both the local and remote units indicate power status and verify communication is established between the units.
- Meets the electrostatic discharge (ESD) immunity requirements of IEC/EN 61000-4-2.



### XTENDEX® ST-C5USBV (Local and Remote Units)

The XTENDEX® ST-C5USBV USB KVM extender provides local and remote KVM (USB keyboard, USB mouse and VGA monitor) access to a USB computer or NTI KVM switch up to 1,000 feet using CAT5/5e/6 UTP cable, which overcomes the USB five meter limitation.

Each ST-C5USBV consists of a zero-U local unit (connects to a computer, and provides local keyboard, monitor and mouse connections) and a desktop remote unit (connects to a keyboard, monitor and mouse or the inputs of an NTI switch). The local and remote units are interconnected via CAT5/5e/6 cable.

## Specifications

### Local Unit

- Host Connection
  - Multiplatform support: Windows 2000/XP/Vista/7/8/10, Windows Server 2000/2003/2008/2012, Solaris, Linux, FreeBSD, and MAC OS 9/10.
  - One male 15-pin HD / one male USB Type A connectors.
  - Supports any USB-enabled PC, SUN or MAC computer, or NTI UNIMUX™ KVM switch.
  - Keyboard and mouse presence are emulated 100% of the time so the computer boots error-free.
- Local Access
  - Crisp and clear 1920x1440 video resolution.
  - One female 15-pin HD connector.
  - Two female USB Type A connectors.
  - NTI recommends using identical keyboards and mice at local and remote units.

### Video Quality Adjustment:

- Automatic video quality adjustment provides optimum image quality for various lengths of CAT5 cable.
- On Screen Display (OSD) menus provide additional control, allowing users to fine-tune video image quality and adjust for cable skew.
  - Video skew can be adjusted up to 1,000 feet (305 meters) via OSD menus to prevent color separation, allowing the use of CAT6 cable.
  - Test Pattern for Cable Length

### Environmental

- Operating temperature: 32 to 100°F (0 to 38°C)
- Storage temperature: -20 to 140°F (-30 to 60°C)
- Operating and Storage Relative Humidity: 17 to 90% non-condensing RH

### Remote Unit

- Supports resolutions up to 1920x1440; refer to the resolution chart below for resolutions at different lengths.
- One female 15-pin HD connector.
- Two female USB Type A connectors.
- The ST-C5USBV will only work with USB keyboards and mice. It is not designed to support other USB devices.
  - Keyboard and mouse must be of the same platform.

### Power

- Local and remote unit: 110 or 220 VAC at 50 or 60 Hz via AC adapter (included).
- Power consumption: 5 W (each - local and remote unit).
- Use the PWR-48V-5V1A DC-DC power converter to install the local unit in a Telecom environment.

### MTBF

- Local Unit: 80,209 hrs
- Remote Unit: 76,935 hrs

### Regulatory Approvals

- CE, RoHS
- TAA compliant

### Warranty

- Two years

### Warning

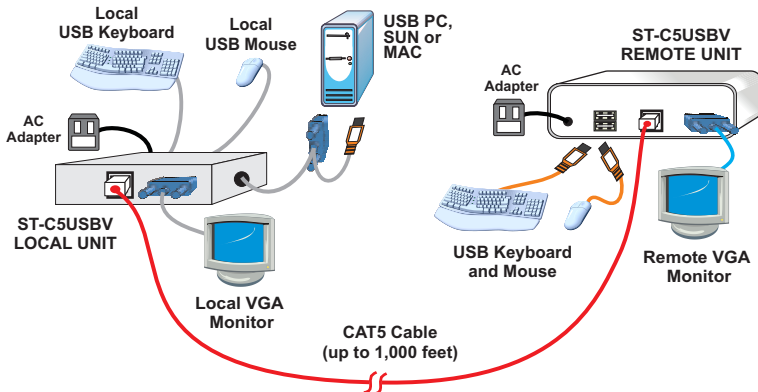
- The ST-C5USBV is not designed to be connected to an Ethernet card, Ethernet router, hub or switch or other Ethernet RJ45 connector of an Ethernet device. Damage to devices connected to the Ethernet may result.

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### Configuration and Cable Illustrations



### Cables

- Use CAT5, CAT5e or CAT6 UTP straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors.
- Cables not included.

### Maximum Distances & Resolutions for CAT5e/6 Cables

Cable	Distance (ft)	Maximum Resolution
CAT5/5e UTP	1000	1024x768 at 60Hz
	900	1280x1024 at 60Hz
	700	1600x1200 at 60Hz
	450	1920x1440 at 60Hz
CAT6 UTP	1000	1024x768 at 60Hz
	800	1280x1024 at 60Hz
	600	1600x1200 at 60Hz
	400	1920x1440 at 60Hz