

# Hi-Res VGA USB KVM Extender via CAT5

**XTENDEX®**

## Extend USB keyboard, USB mouse and VGA monitor up to 1,000 feet (305 meters)

- Industry-leading ultra high resolutions up to 2048x1536.
- High quality, rugged steel construction with durable powder coat finish.
- Automatically adjust video quality and color skew for crystal clear video with longer cables.
- DDC2B emulation support for remote monitor.
- Built-in surge protection.
- Available with optional stereo audio and/or additional USB 2.0 (low/full speed) port for local and remote user.
  - For the additional USB port on the local unit, connect any type of USB device (fully transparent USB connection).
  - For the additional USB port on the remote unit, use to connect a USB printer, touch screen monitor, interactive whiteboard, or CAC card reader.

### Available options:

- **Audio**
- **USB connector for USB printer, touch screen monitor, CAC card reader, or interactive whiteboard**



### XTENDEX® ST-C5USBVUA-1000S Local and Remote Units

The XTENDEX® VGA 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 (305 meters) using CAT5/5e/6 UTP cable. Each ST-C5USBV-1000S consists of a local unit that connects to a computer and provides local keyboard, monitor and mouse connections, and a remote unit that connects to a keyboard, monitor and mouse. The local and remote units are interconnected via CAT5/5e/6 cable.

## Specifications

### Local Unit

#### Host Connection

- Supports a USB computer (PC, SUN, MAC).
- 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 connector.
- One male USB Type A connector.
- Audio option: one 3.5mm stereo plug (audio in).

#### Local Access

- Crisp and clear 2048x1536 video resolution.
- One female 15-pin HD connector.
- Two female USB Type A connectors.
- Audio option: one 3.5mm stereo plug (audio out).
- Available with an optional female USB Type A connector for an additional USB 2.0 (low/full speed) device.
  - ♦ Connect any type of USB device – fully transparent USB connection.
  - ♦ USB maximum data rate: 12 Mbps

### Video Quality Adjustment

- Automatically adjusts the video quality and color skew to compensate for varying lengths of CAT5/5e/6 cable.
  - Maximum delay: 62ns in 2ns steps.
- Manual fine adjustments are made via keyboard commands.
- Settings are automatically stored in the unit. The next time the unit is powered on, the adjustment will be recalled.

### Power

- Local and remote unit: 110 or 220 VAC at 50 or 60 Hz via AC adapter.

#### MTBF

NTI Part #	Hours	NTI Part #	Hours
ST-C5USBV-L-1000S	38,570	ST-C5USBV-R-1000S	43,429
ST-C5USBVU-L-1000S	37,943	ST-C5USBVU-R-1000S	44,468
ST-C5USBVA-L-1000S	38,453	ST-C5USBVA-R-1000S	43,234
ST-C5USBVUA-L-1000S	37,838	ST-C5USBVUA-R-1000S	42,606

### Remote Unit

- Supports resolutions up to 2048x1536; refer to the resolution chart for resolutions at different lengths.
- One female 15-pin HD connector.
- Two female USB Type A connectors.
- Audio option: one 3.5mm stereo plug (audio out).
- Available with an optional female USB Type A connector for an additional USB 2.0 (low/full speed) device – USB printer, touch screen monitor, CAC card reader, interactive whiteboard, or barcode scanner.
  - USB maximum data rate: 12 Mbps.
  - When using a USB printer connected from the remote unit, it is recommended to only print three pages at a time.
  - Supported touch screen monitors: Microtouch 3M, Elo 1529L 3000 Series, Elo 1515L, Dell S2240T, Smart Podium ID422w, Hope Industrial HIS-RL17, NEC MultiSync E222W, Industrial Electronic Devices Inc IWS-240t-G3, Zytronic CML-170, Pulse IR TSV4001/DT40 and HP Compaq.
  - Supported interactive whiteboards: SMART Board™ SB640
  - Supported card readers: Athena, Cherry, Gemalto, Generic USB, and Dell smart card/keyboard combo.

### Environmental

- Operating temperature: 32to 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.

### Dimensions

- WxDxH: 5.1x3.1x1.2 in. (130x79x31 mm)

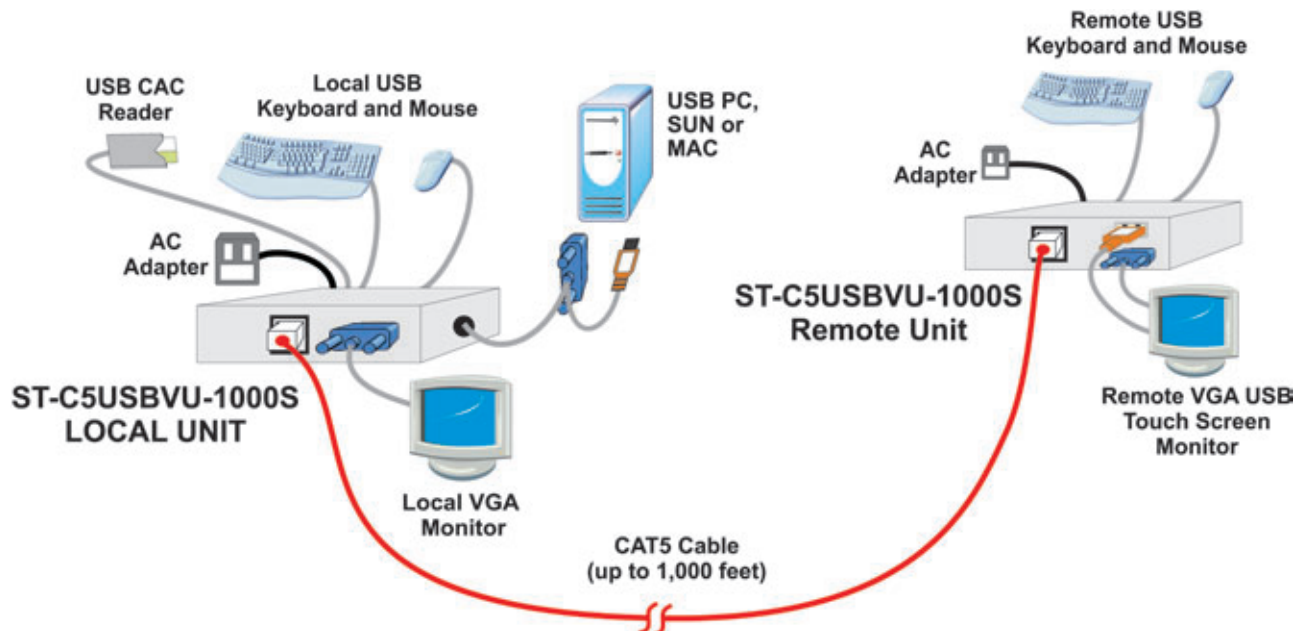
### Regulatory Approvals

- CE, RoHS
- TAA compliant

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## Configuration and Cable Illustration



## Options

### Stereo Audio

- Stereo audio can be heard both locally and remotely.
- Frequency response: 20 Hz to 20 kHz,  $\pm 1$  dB.
- Signal-to-Noise Ratio (SNR):  $>76$  dBA.
- Total Harmonic Distortion and Noise (THD+N):  $<0.1\%$ .
- Stereo crosstalk:  $-70$  dB.
- Input impedance: 10k Ohms.
- Line level output; supports multimedia speakers.
- Maximum I/O levels: 3.1Vp-p (line level).
- CD quality audio output.

### Additional USB Port

- Additional USB 2.0 port for local and remote user.
  - For the additional USB port on the local unit, connect any type of USB device (fully transparent USB connection).
  - For the additional USB port on the remote unit, use to connect a USB printer, touch screen monitor, CAC card reader, interactive whiteboard, or barcode scanner.
    - ◆ USB maximum data rate: 12 Mbps.
    - ◆ When using a USB printer connected from the remote unit, it is recommended to only print three pages at a time.
    - ◆ Supported touch screen monitors: Microtouch 3M, Elo 1529L 3000 Series, Elo 1515L, Smart Podium ID422w, Hope Industrial HIS-RL17, NEC MultiSync E222W, Industrial Electronic Devices Inc IWS-240t-G3, Zytronics CML-170, Pulse IR TSV4001/DT40 and HP Compaq.
    - ◆ Supported interactive whiteboards: SMART Board™ SB640
    - ◆ Supported card readers: Athena, Cherry, Gemalto, Generic USB, and Dell smart card/keyboard combo.

## Distances and Resolutions for CAT5/CAT5e and CAT6 Cables

Cable	Distance (ft)	Resolution
CAT5/CAT5e (UTP)	1000	1920x1200 at 60Hz
	800	1920x1440 at 60Hz
	600	2048x1536 at 60Hz
CAT6 (UTP)	800	1920x1440 at 60Hz
	600	2048x1536 at 60Hz
CAT5/5e (STP)	800	1920x1200 at 60Hz
	600	1920x1440 at 60Hz
	400	2048x1536 at 60Hz
CAT6 (STP)	400	1280x1024 at 60Hz
	300	1600x1200 at 60Hz
	200	2048x1536 at 60Hz

## VGA USB KVM Models

Supported Features	NTI Part #
USB KVM	ST-C5USBV-1000S
USB KVM + ADDITIONAL USB PORT	ST-C5USBVU-1000S
USB KVM + AUDIO	ST-C5USBVA-1000S
USB KVM + ADDITIONAL USB PORT + AUDIO	ST-C5USBVUA-1000S