

# VGA USB KVM Splitter/Extender with Stereo Audio via CAT5 to 1,000 Feet

VOPEX®

## Allows up to eight users to control one USB computer located 1,000 feet away

- Industry-leading ultra-high resolutions up to 2048x1536.
- Compatible with USB computers (PC, SUN, MAC).
- Access one computer from multiple locations.
- Provides local KVM access.
  - The local USB ports can also be used to connect printers, scanners, security cameras, etc
- Multiple users can enter data into the same program.
- Easily expandable. Add remote units as you add users.
- Supports DDC emulation and mixing.
  - DDC mixing provides a table of resolutions that are common to each connected monitor).
- Compliant with USB 2.0 (low/full speed) standards.
- Automatically adjust video quality and color skew for crystal clear video with longer cables.
- Supports Plug-n-Play specifications.
- Built-in surge protection.
- Optional support for remote USB touch screen monitors, CAC card readers, or interactive whiteboards.
- High quality, rugged steel construction with durable powder coat finish.
- Flash upgradeable.



**VOPEX-C5USBVA-8 Local Unit (Front & Back)**

The VOPEX® VGA USB KVM Splitter/Extender allows up to eight remote users (8 USB keyboards, mice, and VGA monitors) to access one USB computer (PC, SUN, MAC) located up to 1,000 feet away using CAT5/5e/6 cable. Audio can be broadcasted to self-powered stereo speakers at the local unit and each remote location.

The VOPEX VGA USB KVM Splitter/Extender system has two components: the VOPEX-C5USBVA-x broadcast unit, which connects to a computer and provides local keyboard, monitor and mouse connections; and an XTENDEX® remote unit (ST-C5USBV(U/A/UA)-R-1000S) for each remote monitor, keyboard, and mouse. The units are interconnected by CAT5/5e/6 cable.

## Specifications

### Local Unit (Splitter)

#### Host Connection

- One male 15-pin HD connector.
  - Input impedance: 75 Ohms.
- One female USB Type B connector.
- One female 3.5mm stereo audio connector (audio in).
- Supports a USB computer (PC, SUN, MAC).
- Multiplatform support: Windows 2000/XP/Vista/7, Windows Server 2000/2003/2008, Solaris, Linux, FreeBSD, and MAC OS 9/10.
- Optional support for remote USB touch screen monitors, CAC card readers, or interactive whiteboards (VOPEX-C5USBVUA-4/8)
  - Must use remote units with additional USB port (ST-C5USBVU-R-1000S or ST-C5USBVUA-R-1000S).

#### Local Access

- Crisp and clear 2048x1536 video resolution.
- One female 15-pin HD connector.
- One 3.5mm stereo audio plug (audio out).
- Two female USB Type A connectors.
  - Connect any type of USB device – fully transparent USB connection.
  - USB maximum data rate: 12 Mbps.

#### Audio

- Frequency response: 20 Hz to 20 kHz,  $\pm 1$  dB.
- Signal-to-Noise Ratio (SNR): 76 dBA.
- Total Harmonic Distortion and Noise (THD+N): 0.017%.
- Stereo crosstalk: -70 dB.
- Input impedance: 10k Ohms.
- Line level output; supports multimedia speakers.
- CD quality output.
- Maximum I/O levels for audio: 3.1vp-p (line level).

#### Cables

- 3-foot VGA cable included.
- 3-foot audio cable included.
- 1-meter (3.28 ft) USB Type A male to Type B male cable included.
- 5-foot CAT5 patch cable and DB9F-RJ45F adapter included for firmware upgrade.
- Use CAT5/5e/6 solid UTP/STP straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors (not included).

#### Power

- 110 to 220 VAC at 50 or 60 Hz via AC adapter. (Country-specific AC adapter included).

#### Dimensions (WxDxH)

- 4-Port: 7.35x5.0x1.09 in (187x127x28 mm).
- 8-Port: 7.35x5.0x1.7 in (187x127x43 mm).

#### Environmental

- Operating temperature: 32 to 100°F (0 to 38°C)
- Storage temperature: -22 to 140°F (-30 to 60°C)
- Operating and storage relative humidity: 17 to 90% non-condensing RH.

#### Regulatory approvals

- CE, RoHS.
- TAA compliant

#### Warranty

- Two years.

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## Specifications (continued)

### Remote Unit (Receiver)

- Female 15-pin HD connector.
- Two female USB Type A connectors.
- Supports resolutions to 2048x1536; refer to the resolution chart below for resolutions at different lengths.
- Output impedance: 75 Ohms.
- Maximum output level of video: 1.45Vp-p.
- Available with optional female USB Type A connector for an additional USB 2.0 (low/full speed) device - USB touch screen monitor, CAC card reader, interactive whiteboard, or barcode scanner.
  - Requires VOPEX-C5USBVUA-4/8.
  - USB maximum data rate: 12 Mbps.
- 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, Zytronic CML-170, Pulse IR TSV4001/DT40, HP Compaq, Sharp Aquos Board, Advantech FPM-2150, Touch Screens Inc TWAP-1150ADP/1154ADP-USB and similar monitors that use PenMount 5000/6000/9000 driver.
- Supported interactive whiteboards: SMART Board™ SB640
- Supported card readers: Athena, Cherry, Gemalto, Generic USB, and Dell smart card/keyboard combo.

### Video Quality Adjustments

- Automatically adjusts the video quality and color skew to compensate for varying lengths of CAT5/5e/6 cable.
- 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.

### Optional Audio

- 3.5mm stereo audio jack.
- Frequency response: 20 Hz to 20 kHz,  $\pm 1$ dB.
- Signal-to-Noise Ratio (SNR): 76 dBA.
- Total Harmonic Distortion and Noise (THD+N): 0.017%.
- Stereo crosstalk: -70 dB.
- Line level output; supports multimedia speakers.
- CD quality audio output.
- Maximum output levels: 3.1Vp-p (line level).

### Power

- 110 or 220 VAC at 50 or 60 Hz via AC adapter. (Country-specific AC adapter included.)

### Dimensions (WxDxH)

- 5.05x3.1x1.24 in (128x79x32 mm).

### Environmental

- Operating temperature: 32 to 100°F (0 to 38°C)
- Storage temperature: -22 to 140°F (-30 to 60°C)
- Operating and storage relative humidity: 17 to 90% non-condensing RH.

### Regulatory Approvals

- CE, RoHS.

### Warranty

- Two years.

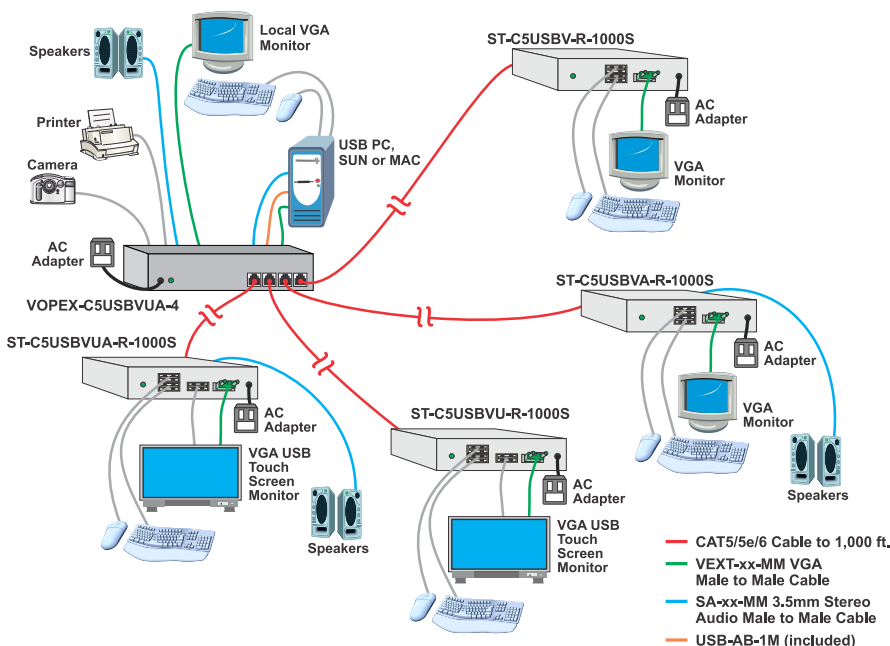
### Regulatory approvals

- CE, RoHS.
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### Warranty

- Two years.

## Configuration and Cable Illustrations



### 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
	400	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