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

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).
- 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, ±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).

### 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: 5 to 90% non-condensing RH.

### Regulatory approvals

- CE, RoHS
- TAA compliant

### Warranty

- Two years.
Allows up to eight users to control one USB computer located 1,000 feet away

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.
  - USB maximum data rate: 12 Mbps.
  - 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, ±1dB.
- 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: 5 to 90% non-condensing RH.

Regulatory Approvals
- CE, RoHS.

Warranty
- Two years.

Regulatory approvals
- CE, RoHS.
- TAA compliant

Configuration and Cable Illustrations

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Distances and Resolutions for CAT5/Cat5e and CAT6 Cables

<table>
<thead>
<tr>
<th>Cable</th>
<th>Distance (ft)</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT5/CAT5e (UTP)</td>
<td>1000</td>
<td>1920x1200 at 60Hz</td>
</tr>
<tr>
<td></td>
<td>800</td>
<td>1920x1440 at 60Hz</td>
</tr>
<tr>
<td></td>
<td>600</td>
<td>2048x1536 at 60Hz</td>
</tr>
<tr>
<td>CAT6 (UTP)</td>
<td>800</td>
<td>1920x1440 at 60Hz</td>
</tr>
<tr>
<td></td>
<td>600</td>
<td>2048x1536 at 60Hz</td>
</tr>
<tr>
<td>CAT5/5e (STP)</td>
<td>800</td>
<td>1920x1200 at 60Hz</td>
</tr>
<tr>
<td></td>
<td>600</td>
<td>2048x1536 at 60Hz</td>
</tr>
<tr>
<td>CAT6 (STP)</td>
<td>400</td>
<td>1280x1024 at 60Hz</td>
</tr>
<tr>
<td></td>
<td>300</td>
<td>1600x1200 at 60Hz</td>
</tr>
<tr>
<td></td>
<td>200</td>
<td>2048x1536 at 60Hz</td>
</tr>
</tbody>
</table>

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VOPEX®

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