**VGA Video/Audio Splitter/Extender via CAT5: 4-, 8-, and 16-Port VOPEX®**

**Drive up to 16 monitors and speakers 600 feet away from one computer**

- Supports resolutions up to 1920x1440.
- Optional audio can be broadcast to self-powered stereo speakers at the local unit and each remote location.
- Easily expandable. Add remote units as you add monitors.
- Meets the electrostatic discharge (ESD) immunity requirements of IEC/EN 61000-4-2.
- High quality rugged steel construction with durable powder coat finish.
- Ideal for digital signage, movie theater lobbies, point of purchase displays, conference centers, airports, and other applications that require multiple displays.

The VOPEX® VGA Video Splitter/Extender simultaneously broadcasts high-resolution video from one computer to 4, 8, or 16 remote monitors located up to 600 feet away using CAT5/5e/6 cable. Optional audio functionality using self-powered stereo speakers enhances presentations.

The VOPEX VGA video splitter/extender system has two components: the VOPEX-C5V-xC VGA broadcast unit, which connects to the host computer and also supplies video to a local monitor, and an XTENDEX® ST-C5V-R-600 remote unit for each remote monitor. The units are interconnected by CAT5/5e/6 cable.

### Configuration and Cable Illustration

The VOPEX-C5VA-4C Local Unit (Front & Back) and ST-C5VA-600 Remote Unit

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

<table>
<thead>
<tr>
<th>Cable</th>
<th>Distance (feet)</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT5/CAT5e (UTP)</td>
<td>600</td>
<td>1024x768 at 60Hz</td>
</tr>
<tr>
<td></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>100</td>
<td>1920x1440 at 60Hz</td>
</tr>
<tr>
<td>CAT5/CAT5e (STP)</td>
<td>300</td>
<td>1024x768 at 60Hz</td>
</tr>
<tr>
<td>CAT6 (UTP)</td>
<td>200</td>
<td>1280x1024 at 60Hz</td>
</tr>
<tr>
<td></td>
<td>100</td>
<td>1920x1440 at 60Hz</td>
</tr>
<tr>
<td>CAT6a (UTP)</td>
<td>300</td>
<td>1280x1024 at 60Hz</td>
</tr>
</tbody>
</table>

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### Specifications

#### Local Unit

**Video Input**
- Supports a PC, SUN or MAC with VGA video.
- Male 15-pin HD connector.
- Input frequency ranges:
  - Horizontal: 15 kHz to 130 kHz.
  - Vertical: 30 Hz to 150 Hz.
- Supports Separate and Composite TTL level sync and Sync on Green.
- Input impedance: 75 Ohms.
- Maximum input levels: 1.45 p-p.
- Video is DC coupled.

**Video Output**
- Female RJ45 connectors for CAT5/5e/6 cable to remote units.
- Female 15-pin HD connector for local monitor.
- Crisp and clear 1920x1440 video resolution.
- Output impedance: 75 Ohms.

**Optional Audio**
- 3.5mm female stereo audio jacks.
- Frequency response: 20 Hz to 20 kHz, ±1 dB.
- Signal-to-Noise Ratio (SNR): 76 dB.
- 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 audio output.
- Maximum output levels: 3.1Vp-p (line level).

**Cables**
- 3-foot VGA cable included.
- 3-foot audio cable included with units with audio option.
- Use CAT5, CAT5e or CAT6 UTP straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors (not included).

**Power**
- Input: 100 to 240 VAC at 50 or 60 Hz via AC adapter. (Country-specific AC adapter included.)
- Output:
  - VOPEX-C5V(A)-x:C: 5VDC, 3A
  - VOPEX-C5V(A)-16: 9VDC, 1.5A

**Regulatory Approvals**
- CE, RoHS

#### Remote Unit

**Video Output**
- Female 15-pin HD connector.
- Supports resolutions up to 1920x1440; refer to the resolution chart below for resolutions at different lengths.
  - When using CAT6 cable, some degradation may be experienced, depending on the construction of the cable.
- Output impedance: 75 Ohms.
- Video quality adjustment for different lengths of CATx cable is done manually for video-only units and automatically for audio/video units.

**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).

**Cables**
- 3-foot VGA cable included.
- 3-foot audio cable included with units with audio option.
- Use CAT5, CAT5e or CAT6 UTP straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors (not included).

**Power**
- 110 or 220 VAC at 50 or 60 Hz via AC adapter (included).
- Power consumption: 10W

**Regulatory Approvals**
- CE, RoHS

### CAT5 VGA Video Splitter/Extenders, Local Unit

<table>
<thead>
<tr>
<th>Supported Features</th>
<th>Local or Remote</th>
<th>NTI Part #</th>
<th># of ports</th>
<th>Size WxDxH (In.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VGA Video</strong></td>
<td>Local</td>
<td>VOPEX-C5V-4C</td>
<td>4</td>
<td>5.1x3.4x1.1</td>
</tr>
<tr>
<td></td>
<td>Local</td>
<td>VOPEX-C5V-8C</td>
<td>8</td>
<td>5.1x3.4x1.7</td>
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<tr>
<td></td>
<td>Local</td>
<td>VOPEX-C5V-16</td>
<td>16</td>
<td>8.5x6x2.5</td>
</tr>
<tr>
<td><strong>Video + Audio</strong></td>
<td>Local</td>
<td>VOPEX-C5VA-4C</td>
<td>4</td>
<td>5.1x3.4x1.1</td>
</tr>
<tr>
<td></td>
<td>Local</td>
<td>VOPEX-C5VA-8C</td>
<td>8</td>
<td>5.1x3.4x1.7</td>
</tr>
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### CAT5 VGA Video Extenders, Remote Unit

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<th># of ports</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>VGA Video</strong></td>
<td>Local</td>
<td>ST-C5V-R-600</td>
<td>NA</td>
<td>3.5x3.1x1.2</td>
</tr>
<tr>
<td></td>
<td>Remote</td>
<td>ST-C5V-R-600</td>
<td>NA</td>
<td>3.5x3.1x1.2</td>
</tr>
<tr>
<td><strong>Video + Audio</strong></td>
<td>Local</td>
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