

# VGA VIDEO/AUDIO SPLITTER/EXTENDER VIA CAT5

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



**Built-In Surge Protection**



**VOPEX-C5VA-16 Local Unit (Front and Back) and ST-C5VA-R-600 Remote Unit**

## Features & Applications

The VOPEX® VGA Video Splitter/Extender 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-x 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.

- Sharpest and clearest VGA of any manufacturer.
- Broadcast real-time VGA video or audio/video to multiple display locations.
- 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.
- A pure hardware solution—no software conflicts.
- Available in optional rackmount enclosure.
  - Includes cable management shelf.
- Compatible with all NTI A/V switches and splitters, which enables the joining of products to create a system that satisfies all of your networking needs.
- Supports resolutions up to 1920x1440; refer to the resolution chart on page 2 for resolutions at different lengths.
- Ideal for digital signage, movie theater lobbies, point of purchase displays, conference centers, airports, and other applications that require multiple displays.

## 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.

#### Power

- 110 or 220 VAC at 50 or 60 Hz via AC adapter.

#### Power Consumption

Model	Power (W)	Model	Power (W)
VOPEX-C5V-4	5	VOPEX-C5VA-4	5
VOPEX-C5V-8	5	VOPEX-C5VA-8	10
VOPEX-C5V-16	10	VOPEX-C5VA-16	10

### Video Output

- Female RJ45 connectors for CAT5/5e/6 cable to remote units.
- Female 15-pin HD connector for local monitor.
- Compatible with SVGA, XGA, and VGA.
- 1920x1440 video resolution.
- Output impedance: 75 Ohms.
- Maximum output level: 1.45Vp-p

### Optional Audio

- 3.5mm female stereo audio jacks.
- 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 audio output.
- Maximum I/O levels for audio: 3.1 Vp-p (line level).

### Regulatory Approvals

- CE, RoHS



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## Specifications (Continued)

### Remote Unit

#### Video Output

- 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.
- Female 15-pin HD connector.
- Output impedance: 75 Ohms.
- Maximum output level for video: 1.45Vp-p.
- Video quality adjustment for different lengths of CAT5/5e/6 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).

#### Power

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

#### Regulatory Approvals

- CE, FCC, RoHS

## 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).

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

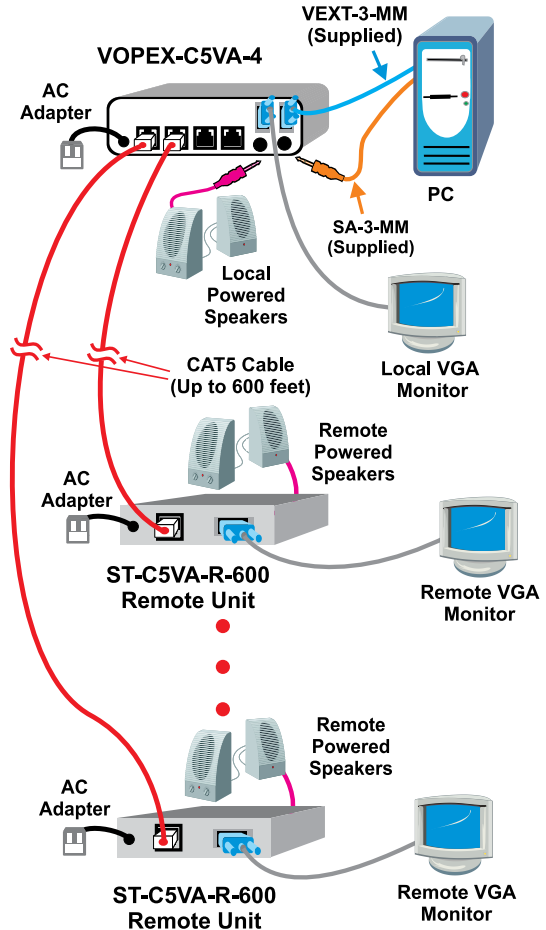
Cable	Distance (feet)	Maximum Resolution
CAT5/CAT5e (UTP)	600	1024x768 at 60Hz
CAT5/CAT5e (UTP)	400	1280x1024 at 60Hz
CAT5/CAT5e (UTP)	300	1600x1200 at 60Hz
CAT5/CAT5e (UTP)	100	1920x1440 at 60Hz
CAT6 (UTP)	300	1024x768 at 60Hz
CAT6 (UTP)	200	1280x1024 at 60Hz
CAT6 (UTP)	100	1920x1440 at 60Hz



#### Warning!

- Never connect the VOPEX-C5V-x or ST-C5Vx-600 Extender 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.

## Configuration and Cable Illustration



### Desktop VGA Splitter / Extender via CAT5 Models

Supported Features	Local or Remote	NTI Part #	# of ports	Local Unit Size WxDxH (in)
VGA Video	Local	VOPEX-C5V-4	4	8.5x6.0x2.6
VGA Video	Local	VOPEX-C5V-8	8	8.5x6.0x2.6
VGA Video	Local	VOPEX-C5V-16	16	8.5x6.0x2.6
Video + Audio	Local	VOPEX-C5VA-4	4	8.5x6.0x2.6
Video + Audio	Local	VOPEX-C5VA-8	8	8.5x6.0x2.6
Video + Audio	Local	VOPEX-C5VA-16	16	8.5x6.0x2.6
VGA Video	Remote	ST-C5V-R-600	NA	3.5x3.1x1.2
Video + Audio	Remote	ST-C5VA-R-600	NA	3.5x3.1x1.2

### Rackmount VGA Splitter / Extender via CAT5 Models

Supported Features	Local or Remote	NTI Part #	# of ports	Local Unit Size WxDxH (in)
VGA Video	Local	VOPEX-C5V-4R	4	19x10.5x1.75
VGA Video	Local	VOPEX-C5V-8R	8	19x10.5x1.75
VGA Video	Local	VOPEX-C5V-16R	16	19x10.5x1.75
Video + Audio	Local	VOPEX-C5VA-4R	4	19x10.5x1.75
Video + Audio	Local	VOPEX-C5VA-8R	8	19x10.5x1.75
Video + Audio	Local	VOPEX-C5VA-16R	16	19x10.5x1.75
VGA Video	Remote	ST-C5V-R-600	NA	3.5x3.1x1.2
Video + Audio	Remote	ST-C5VA-R-600	NA	3.5x3.1x1.2



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