

# VGA Video/Audio Splitter/Extender via CAT5 to 1,000 Feet

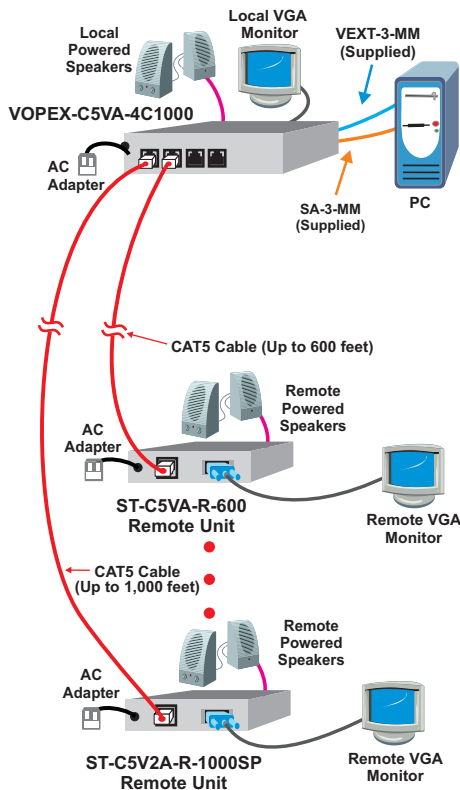
VOPEX®

## Drive up to 8 monitors and speakers 1,000 feet away from one computer

- Broadcast real-time VGA video and stereo audio to multiple locations.
- Supports resolutions up to 2048x1536 using NTI's 1,000' remote units and 1920x1440 using NTI's 600' remote units.
- Easily expandable. Add remote units as you add monitors.
- A pure hardware solution-no software conflicts.
- 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.



### Configuration and Cable Illustration



### VOPEX-C5VA-4C1000 Local Unit (Front & Back) and ST-C5V-R-1000SP Remote Unit

- Supports Resolutions up to 2048x1536
- Compatible with NTI's 600' and 1000' Extenders

The VOPEX® VGA Video Splitter/Extender simultaneously broadcasts high-resolution VGA video from one computer to 4 or 8 remote monitors 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 when using NTI's remote units with audio option.

The VOPEX VGA Video splitter/extender system has two components: the VOPEX-C5V(A)-xC1000 VGA broadcast unit, which connects to the host computer and also supplies video to a local monitor, and an XTENDEX® remote unit (ST-C5V(2A)-R-1000SP or ST-C5V(A)-R-600) for each remote monitor. The units are interconnected by CAT5/5e/6 cable.

VGA Video/Audio Splitter/Extenders via CAT5 to 1,000 Feet Models	
NTI Part #	# of Ports
VOPEX-C5VA-4C1000	4
VOPEX-C5VA-8C1000	8

Receivers to 1,000 Feet	
NTI Part #	Supported Features
ST-C5V-R-1000SP	VGA
ST-C5V2A-R-1000SP	VGA + Audio

Receivers to 600 Feet	
NTI Part #	Supported Features
ST-C5V-R-600	VGA
ST-C5VA-R-600	VGA + Audio

Remote Units to 600 ft Distances and Resolutions for CATx Cables		
Cable	Distance (feet)	Maximum Resolution
CAT5/CAT5e Solid UTP	600	1024x768 at 60Hz
	400	1280x1024 at 60Hz
	300	1600x1200 at 60Hz
	100	1920x1440 at 60Hz
CAT5/5e Solid STP, CAT6/6a Solid UTP	300	1024x768 at 60Hz
	200	1280x1024 at 60Hz
	100	1920x1440 at 60Hz

Remote Units to 1,000 ft Distances and Resolutions for CATx Cables		
Cable	Distance (feet)	Maximum Resolution
CAT5/CAT5e(UTP)	1000	1920x1200 at 60Hz
	800	1920x1440 at 60Hz
	600	1600x1200 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 Video/Audio Splitter/Extender via CAT5 to 1,000 Feet

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## Specifications

### Local Unit (Splitter)

#### Video Input

- Supports a PC, SUN or MAC with VGA video.
- Male 15-pin HD connector.
- DDC Update button for sending updated EDID to the graphics card in the CPU.
- 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 Vp-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 2048x1536 video resolution.
- Output impedance: 75 Ohms.
- Maximum output level: 1.45Vp-p

#### Audio

- 3.5mm 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).

#### Cables

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

#### Power

- 100 to 240 VAC at 50 or 60 Hz via AC adapter. (Country-specific AC adapter included.)

#### Dimensions

- 4-port WxDxH (in): 5.13x3.45x1.08
- 8-port WxDxH (in): 5.13x3.45x1.68

#### 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

### Remote Unit (Receiver)

#### Video Output

- Female 15-pin HD connector.
- Resolutions:
  - ST-C5V(2A)-R-1000SP: Supports resolutions up to 2048x1536
  - ST-C5V(A)-R-600: Supports resolutions up to 1920x1440
  - Refer to the resolution charts below for resolutions at different lengths.
- Output impedance: 75 Ohms.
- Maximum output level for video: 1.45Vp-p.
- Video quality adjustment:
  - ST-C5V(2A)-R-1000SP: Automatically adjusts the video quality and color skew to compensate for varying lengths of CATx cable.
  - ST-C5V(A)-R-600: Video quality adjustment for different lengths of CATx cable is done manually for the video-only remote, and automatically for audio/video remote.

#### Optional Audio

- 3.5mm stereo audio jack.
  - Note: the extra 3.5mm port on ST-C5V2A-R-1000SP for microphone is not supported by the VOPEX-C5VA-xC1000.
- 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

- 100 to 240 VAC at 50 or 60 Hz via AC adapter. (Country-specific AC adapter included.)

#### Dimensions

- ST-C5V(2A)-R-1000SP WxDxH (in): 5.05x3.08x1.09 in
- ST-C5VA-R-600 WxDxH (in): 3.47x3.05x1.04

#### 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
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#### Warranty

- Two years