

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.



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

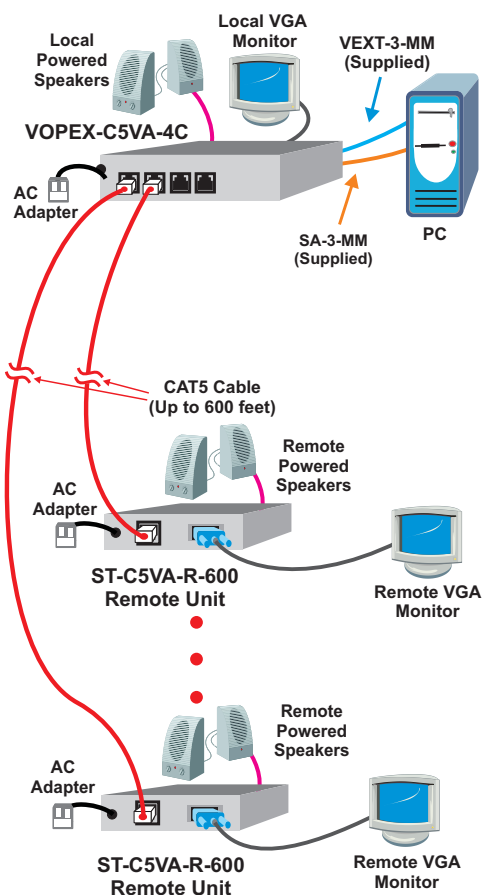


 **Designed and Manufactured in the USA**

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



Distances and Resolutions for CAT5/CAT5e and CAT6 Cables

Cable	Distance (feet)	Resolution
CAT5/CAT5e (UTP)	600	1024x768 at 60Hz
	400	1280x1024 at 60Hz
	300	1600x1200 at 60Hz
	100	1920x1440 at 60Hz
CAT5/CAT5e (STP) CAT6 (UTP)	300	1024x768 at 60Hz
	200	1280x1024 at 60Hz
CAT6a (UTP)	100	1920x1440 at 60Hz
	300	1280x1024 at 60 Hz

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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.
- 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).

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)-xC: 5VDC, 3A
 - VOPEX-C5V(A)-16: 9VDC, 1.5A

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.

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.
- Maximum output level for video: 1.45Vp-p.
- 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).

Power

- 100 to 240 VAC at 50 or 60 Hz via AC adapter (included).
- Power consumption: 10W

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.

CAT5 VGA Video Splitter/Extenders, Local Unit

Supported Features	Local or Remote	NTI Part #	# of ports	Size WxDxH (In.)
VGA Video	Local	VOPEX-C5V-4C	4	5.1x3.4x1.1
	Local	VOPEX-C5V-8C	8	5.1x3.4x1.7
	Local	VOPEX-C5V-16	16	8.5x6x2.5
Video + Audio	Local	VOPEX-C5VA-4C	4	5.1x3.4x1.1
	Local	VOPEX-C5VA-8C	8	5.1x3.4x1.7
	Local	VOPEX-C5VA-16	16	8.5x6x2.5

CAT5 VGA Video Extenders, Remote Unit

Supported Features	Local or Remote	NTI Part #	# of ports	Size WxDxH (In.)
VGA Video	Local	ST-C5V-R-600	NA	3.5x3.1x1.2
	Remote	ST-C5V-R-600	NA	3.5x3.1x1.2
Video + Audio	Local	ST-C5VA-R-600	NA	3.5x3.1x1.2
	Remote	ST-C5VA-R-600	NA	3.5x3.1x1.2