

# VGA EXTENDER

Extend a VGA monitor up to 600 feet away from a computer



## Available options:

- **Audio**
- **RS232**
- **Local Unit Supporting Two Remote Units**



**XTENDEX® ST-C5V-600 (Remote and Local unit)**

## Features & Applications

The XTENDEX® VGA Extender transmits VGA video up to 600 feet away from a computer using CAT5/5e/6 cable. Each video extender consists of a local unit that connects to a computer and also supplies video to a local monitor, and a remote unit that connects to a monitor.

- Ideal solution for digital signage applications.
- Supports local and remote VGA monitors.
- Supports resolutions to 1920x1440.
- Sharpest and clearest VGA quality over CAT5 of any manufacturer.
- Built-in surge protection.
- Available with optional stereo audio or RS232 control.
- Optional 2-port local unit available — extend two remote units up to 600 feet.
  - Local VGA monitor not available on 2-port local units.
- Use in-house CAT5/5e/6 phone wiring to locate a monitor remotely.
- Optional VESA mounting bracket is available for mounting the remote unit to the back of a flat panel monitor.

## Specifications

### Local Unit

#### Host Connection

- Supports a PC, SUN, MAC or NTI switch with VGA video.
- Multiplatform support: Windows 2000/XP/Vista/7, Windows Server 2000/2003/2008, Solaris, Linux, FreeBSD, and MAC OS 9/10.
- Male 15-pin HD connector for computer connection.
- Optional stereo audio support – 3.5mm stereo plug.
- Optional RS232 support – female 9-pin D connector.
- ST-2C5V(A/RS)-L-600: female 15-pin HD connector for downloading DDC table for remote monitor.

#### Local Access

- Crisp and clear 1920x1440 video resolution.
- Female 15-pin HD connector for local VGA monitor.
- Optional stereo audio support – 3.5mm stereo jack.
- Optional RS232 support – male 9-pin D connector.
- Local VGA monitor not available on 2-port local units, ST-2C5V(A/RS)-L-600.

### Remote Unit

- Supports resolutions up to 1920x1440; refer to the resolution chart on page 2 for resolutions at different lengths.
- Female 15-pin HD connector.
- Optional 3.5mm stereo audio connection.
- Optional male 9-pin D connector for RS232.

### Video Quality Adjustment

- Video quality adjustment for different lengths of CAT5/5e/6 cable is done manually for the video-only extender, and automatically for audio/video or video/RS232 extender.

### Environmental

- Operating temperature: 32°F to 100°F (0°C to 38°C).
- Storage temperature: -20°F to 140°F (-30°C to 60°C).
- Operating and Storage Relative Humidity: 17 to 90% non-condensing RH.

### Dimensions

- WxDxH(in): 3.5x3.1x1.2

### Power

- Local and remote unit: 110 or 220 VAC at 50 or 60 Hz via AC adapter.
- Power Consumption: 10W (each – local and remote unit).

### Regulatory Approvals

- CE, RoHS

### Warranty

- Two years.

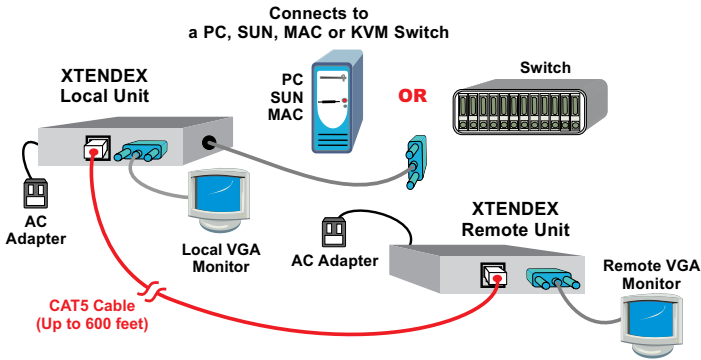
MTBF			
NTI Part #	MTBF (hrs)	NTI Part #	MTBF (hrs)
ST-C5V-600 (local)	88,708	ST-C5V-600 (remote)	80,625
ST-C5VA-600 (local)	84,744	ST-C5VA-600 (remote)	82,214
ST-C5VRS-600 (local)	82,338	ST-C5VRS-600 (remote)	79,714



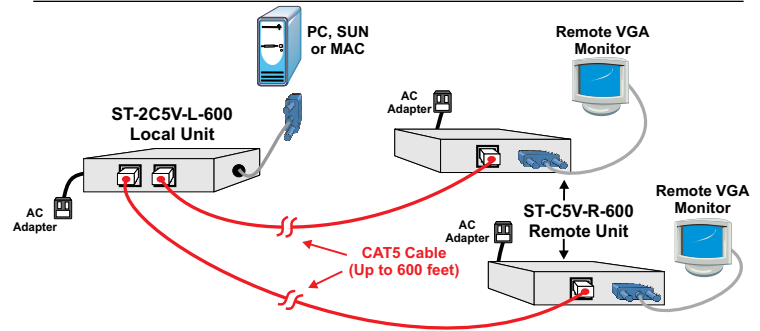
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## Configuration and Cable Illustration



## Configuration and Cable Illustration of ST-2C5V-L-600 and ST-C5V-R-600



## Options

- Choose between stereo audio or RS232.

### Stereo Audio

- Stereo audio can be heard both locally and remotely.
- 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.
- Maximum I/O levels: 3.1Vp-p (line level).
- CD quality audio output.

### RS232

- Supports TXD, RXD, DTR, DSR, CTS and RTS.
- Baud rate up to 56000.

### Local Unit Supporting Two Remote Monitors

- Two RJ45 connectors for connecting two remote units.
  - The monitors connected to each remote unit simultaneously display the same image.
- Features push button for downloading DDC data from monitor connected to VGA connector.

## Cables

- CAT5, CAT5e or CAT6 solid straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors.
- Cables not included.

### VESA Mounting Bracket

- Use to mount the remote unit to the back of a flat panel monitor.
- Compliant to VESA 75mm and 100mm mounting hole patterns.
- Dimensions WxH (in): 9.7x4.8
- Compatible with the remote unit.



Remote unit mounted to the back of a flat panel monitor using ST-C5MK-VESA mounting kit



### Warning!

- These units are not designed to be connected to an ethernet card, ethernet router, hub, switch or any other ethernet RJ45 connector of an ethernet device. Damage to devices connected to the ethernet may result.

## 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
CAT5/5e (STP), CAT6 (UTP)	300	1024x768 at 60Hz
CAT5/5e (STP), CAT6 (UTP)	200	1280x1024 at 60Hz
CAT5/5e (STP), CAT6 (UTP)	100	1920x1440 at 60Hz

## VGA Extender Models

Supported Features	Local or Remote	# of Ports	NTI Part #
VGA	Both	1	ST-C5V-600
VGA + Audio	Both	1	ST-C5VA-600
VGA + RS232	Both	1	ST-C5VRS-600
VGA	Local	2	ST-2C5V-L-600
VGA + Audio	Local	2	ST-2C5VA-L-600
VGA + RS232	Local	2	ST-2C5VRS-L-600
VGA	Remote	1	ST-C5V-R-600
VGA + Audio	Remote	1	ST-C5VA-R-600
VGA + RS232	Remote	1	ST-C5VRS-R-600



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