Transparent USB Extender with VGA Video
XTENDEX®

Extend four USB devices and a VGA monitor up to 200 feet (61 meters)

- Supports fully transparent USB connections — supports all USB computers (PC, SUN and MAC) and their associated peripherals.
- Extend devices such as keyboards, mice, printers, game controllers, USB flash drives, touch screen monitors, whiteboards, etc.
  - Using CAT5e/6 cable, extend USB 1.1/1.0 devices to 180 feet and USB 2.0 devices to 150 feet.
  - Using CAT6a/7 cable, extend USB 1.1/1.0 devices to 200 feet and USB 2.0 devices to 180 feet.
- Supports local and remote VGA monitors.
- Supports resolutions to 2048x1536.
- DDC2B support for local or remote monitor.
- Compliant with USB 2.0 (low/full speed) standards.
- Supports Plug-n-Play specification.
- Meets the electrostatic discharge (ESD) immunity requirements of IEC/EN 61000-4-2.
- Available options: dual video, dual video + two-way audio (support for speakers and microphone) + RS232.
  - ST-C5USBVT: Transmits signals over one CATx cable.
  - ST-C5USB2VT: Transmits signals over two CATx cables.
  - ST-C5USB2V2ARST: Transmits signals over two CATx cables.
- Mounting brackets included for easy surface/wall mounting.

ST-C5USBVT (Remote Unit, Front and Back)

The XTENDEX® Transparent VGA USB Extender extends four USB devices and a VGA monitor up to 200 feet. Each USB 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 four USB devices and a monitor.

Specifications

Local Unit

- Host Connection
  - Supports USB computers (PC, SUN and MAC) with VGA video.
  - Multiplatform support: Windows 7/8/10, Windows Server 2008/2012/2016/2019, Solaris, Linux, FreeBSD, and MAC OS 10/11.
  - ST-C5USBVT: one male 15-pin HD and one female USB Type B connectors.
  - ST-C5USB2VT: two male 15-pin HD and one female USB Type B connectors.
  - ST-C5USB2V2ARST: two male 15-pin HD, one female USB Type B, two female 3.5 mm stereo, and one female RJ45 EIA-232 serial port connectors.
- Local Access
  - Crisp and clear 2048x1536 video resolution.
  - ST-C5USBVT: one female 15-pin HD connector for local VGA monitor.
  - ST-C5USB2VT and ST-C5USB2V2ARST: two female 15-pin HD connectors for local dual VGA monitors.

Environmental

- Operating temperature: 32 to 122°F (0 to 50°C).
- Storage temperature: -22 to 140°F (-30 to 60°C).
- Operating and storage relative humidity: 5 to 90% non-condensing RH.

Dimensions WxDxH:

- ST-C5USBVT: 5.14x3.07x1.09 in (131x78x28 mm)
- ST-C5USB2VT: 5.14x3.07x1.69 in (131x78x43 mm)
- ST-C5USB2V2ARST: 5.14x3.07x1.69 in (131x78x43 mm)

Regulatory Approvals

- CE, RoHS
- TAA compliant

Warranty

- Two years

Remote Unit

- ST-C5USBVT: one female 15-pin HD and four female USB Type A connectors.
- ST-C5USB2VT: two female 15-pin HD and four female USB Type A connectors.
- ST-C5USB2V2ARST: two female 15-pin HD, four female USB Type A, two female 3.5 mm stereo, and one female RJ45 EIA-232 serial port connectors.
- Provides support for full-speed (12 Mbps) or low-speed (1.5 Mbps) USB devices.
  - Compatible with USB touch screen monitors, including HP Compaq L2105tm and Elo 1515L.
- Supports resolutions to 2048x1536.
- Video quality adjustment for different lengths of CATx cable is done manually.

Power

- ST-C5USBVT:
  - Local unit: powered from attached computer via USB.
  - Remote unit: 100 to 240 VAC at 50 or 60 Hz via AC adapter. (US, EURO, UK or AUS AC adapter included.)
- ST-C5USB2VT and ST-C5USB2V2ARST:
  - Local/Remote unit: 100 to 240 VAC at 50 or 60 Hz via AC adapter. (US, EURO, UK or AUS AC adapter included.)
- The combined current consumption of the connected devices cannot exceed 1.4A
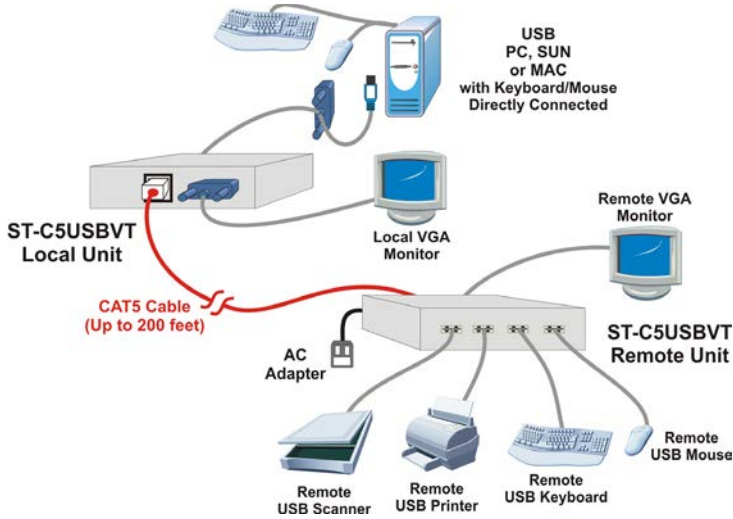
Compatible NTI products

- Use NTI's USB adapters to connect non-USB devices to the extender.
  - Ultra Low-Cost VGA + Audio to HDMI Converter Cable (VGAA-HD-ULC)
  - USB to Audio Adapter (USB-AUDIO)
  - USB to Serial (RS232) Adapter (USB-SERIAL)

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Configuration and Cable Illustrations

Cables

- **ST-C5USBVT:** one 3.28-foot (1-meter) USB Type A male to USB Type B male, and one 3-foot (0.91-meter) 15-pin HD VGA male to male cables included.
- **ST-C5USB2VT:** one 3.28-foot (1-meter) USB Type A male to USB Type B male, and two 3-foot (0.91-meter) 15-pin HD VGA male to male cables included.
- **ST-C5USB2V2ARST:** one 3.28-foot (1-meter) USB Type A male to USB Type B male, two 3-foot (0.91-meter) 15-pin HD VGA male to male, two 3-foot (0.91-meter) 3.5mm audio, and one RJ45 EIA-232 serial cables included.
- Use CAT5e/6/7 straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors (not included).

Maximum Distances & Resolutions for CAT5e/6/6a/7 Cables

Cable	Distance (ft)	Maximum Resolution	USB Device Type
CAT5e Solid UTP	180	2048x1536 at 60 Hz	USB 1.1/1.0
	150	2048x1536 at 60 Hz	USB 2.0/1.1/1.0
CAT5e Solid STP	175	1920x1200 at 60 Hz	USB 1.1/1.0
	150	1920x1200 at 60 Hz	USB 2.0/1.1/1.0
CAT5e Stranded, UTP or STP	175	1600x1200 at 60 Hz	USB 1.1/1.0
	150	1920x1200 at 60 Hz	USB 2.0/1.1/1.0
	100	2048x1536 at 60 Hz	USB 2.0/1.1/1.0
CAT6 Solid UTP	150	1600x1200 at 60 Hz	USB 2.0/1.1/1.0
	100	1920x1440 at 60 Hz	USB 2.0/1.1/1.0
CAT6 550 MHz Solid UTP	175	1920x1200 at 60 Hz	USB 1.1/1.0
	150	1920x1200 at 60 Hz	USB 2.0/1.1/1.0
	100	2048x1536 at 60 Hz	USB 2.0/1.1/1.0
CAT6 Solid STP	150	1920x1200 at 60 Hz	USB 2.0/1.1/1.0
	100	2048x1536 at 60 Hz	USB 2.0/1.1/1.0
CAT6 Stranded, UTP or STP	180	1920x1080 at 60 Hz	USB 1.1/1.0
	150	1920x1200 at 60 Hz	USB 2.0/1.1/1.0
CAT6a Solid UTP	200	1920x1200 at 60 Hz	USB 1.1/1.0
	180	1920x1200 at 60 Hz	USB 2.0/1.1/1.0
CAT7 Solid SSTP	200	2048x1536 at 60 Hz	USB 1.1/1.0
	180	2048x1536 at 60 Hz	USB 2.0/1.1/1.0
CAT7 600 MHz Stranded STP	185	1920x1080 at 60 Hz	USB 1.1/1.0
	170	1920x1080 at 60 Hz	USB 2.0/1.1/1.0
	100	2048x1536 at 60 Hz	USB 2.0/1.1/1.0

USB Extender with VGA Video Models

Supported Features	NTI Part #	Local and Remote Units Size WxDxH in (mm)
VGA + USB	ST-C5USBVT	5.14x3.07x1.09 (131x78x28)
Dual VGA + USB	ST-C5USB2VT	5.14x3.07x1.69 (131x78x43)
Dual VGA + USB + two-way audio + RS232	ST-C5USB2V2ARST	5.14x3.07x1.69 (131x78x43)

MTBF

NTI Part #	MTBF
ST-C5USBVT (local)	42,675
ST-C5USBVT (remote)	44,623
ST-C5USB2VT (local)	34,628
ST-C5USB2VT (remote)	41,135
ST-C5USB2V2ARST (local)	33,710
ST-C5USB2V2ARST (remote)	41,109

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