HDMI USB KVM Extender with IR Option via One CAT5/6/7

XTENDEX®

Extend USB keyboard, USB mouse and HDMI monitor up to 300 feet (91 meters)

- Transmits all signals over one CAT5/6/7 cable.
- Supports HDTV resolutions to 1080p and computer resolutions to 1920x1200 (WUXGA).
- HDMI features supported:
  - 12-bit Deep Color
  - x.v.Color
  - Dolby TrueHD, DTS-HD Master Audio, Dolby Digital, and DTS
  - Bandwidth up to 225 MHz (6.75 Gbps)
  - Support for CEC (consumer electronic control) compatible devices.
  - Lip Sync
- HDCP compliant.
- Supports the DDC2B protocol.
- Available with optional IR control and/or additional USB 2.0 (low/full speed) port.
  - Full IR control of HDMI source from remote HDTV using existing source remote control.
  - For the additional USB port on the remote unit, use to connect a USB touch screen monitor, interactive whiteboard, or CAC card reader.
- High quality, rugged steel construction with durable powder coat finish.
- Keyboard and mouse are hot-pluggable.
- Keep-alive keyboard/mouse emulation for flawless operation.
- Only one power supply is necessary to power both the local and remote units.

DIGITAL SIGNAGE

HDMI™ HIGH-DEFINITION MULTIMEDIA INTERFACE

XTENDEX® ST-C6USBHU-300 (Remote and Local Unit)

The XTENDEX® HDMI USB KVM Extender provides remote KVM (USB keyboard, USB mouse and HDMI monitor) access to a USB computer up to 300 feet (91 meters) over CAT5/6/7 cable. Each ST-C6USBH-300 consists of a local unit that connects to a computer, and a remote unit that connects to a keyboard, monitor and mouse. The local and remote units are interconnected via CAT5/6/7 cable.

Specifications

Local Unit

- Supports a USB computer (PC, SUN, MAC) with HDMI video.
- Multiplatform support: Windows 2000/XP/Vista/7, Windows Server 2000/2003/2008, Solaris, Linux, FreeBSD and MAC OS 9/10.
- One female HDMI connector.
- One female USB Type B connector.
- Optional IR extension support: one female 3.5mm (1/8 in) port for IR emitter.
- One female RJ45 port for sending/receiving high definition video/audio, USB, IR, CEC, and DDC signals.

Dimensions

- WxDxH: 3.09x3.49x1.08 in (78.49x88.65x27.43 mm)

Power

- Powered from a single power supply attached to either the local or remote unit.
- Local or remote unit: 100 to 240 VAC at 50 or 60 Hz via AC adapter. (Country-specific AC adapter included.)

Cables

- 3-foot (0.91 m) HDMI male-to-male cable included.
- 1-meter male (3.28 ft) USB Type A to male USB Type B cable included.
- Use HDMI-xx-MM cable to connect an HDMI display.
- Use DVI-HDMI-xx-MM cable to connect a DVI source or display.
- Use CAT5e/6/7 straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors (not included).
- Use CAT6A-BULK-BLUE-NPC CAT6a 750 MHz Solid Unshielded Bulk Cable terminated with 6A-PLG-SH-BFA CAT6a Shielded Field Assembly RJ45 Connectors for the best performance at 1080p resolution.
- ST-C6USBH(U)-IR-300: IR transmitter/receiver included.

Remote Unit

- Supports HDTV resolutions to 1080p and computer resolutions to 1920x1200 (WUXGA).
- Supports embedded digital audio.
- Auto equalization for different lengths of CAT5e/6/7 cable.
- One female HDMI connector.
- Two female USB Type A connectors.
- Compatible with most USB keyboards and mice, including Logitech M570 wireless mouse and Logitech K400 wireless keyboard.
- Optional IR extension support: one female 3.5mm port for IR receiver.
- Available with an optional female USB Type A connector for an additional USB 2.0 (low/full speed) device – USB touch screen monitor, CAC card reader, interactive whiteboard, or barcode scanner.
  - USB maximum data rate: 12 Mbps.
  - Supported touch screen monitors: Microtouch 3M, ELO 1529L 3000 Series, Smart Podium ID422w, Hope Industrial HIS-RL17, NEC MultiSync E222W, Industrial Electronic Devices Inc IWS-240t-G3, Zytronics CML-170, Pulse IR TSV4001/DT40 and HP Compaq.
  - Supported interactive whiteboards: SMART Board™ SB640
  - Supported card readers: Athena, Cherry, Gemalto, Generic USB, and Dell smart card/keyboard combo.
- One female RJ45 port for sending/receiving high definition video/audio, USB, IR, CEC, and DDC signals.

Environmental

- Operating temperature: 32 to 122°F (0 to 50°C).
- Storage temperature: -20 to 140°F (-30 to 60°C).
- Operating/storage relative humidity: 17 to 90% non-condensing RH.

Regulatory Approvals

- CE, RoHS
- TAA compliant

Warranty

- Two years

NETWORK TECHNOLOGIES INCORPORATED
1.800.RGB.TECH (800.742.8324) Toll Free: US & Canada
330.562.7070 International calls
330.562.1999 Worldwide fax
sales@ntigo.com
www.networktechinc.com

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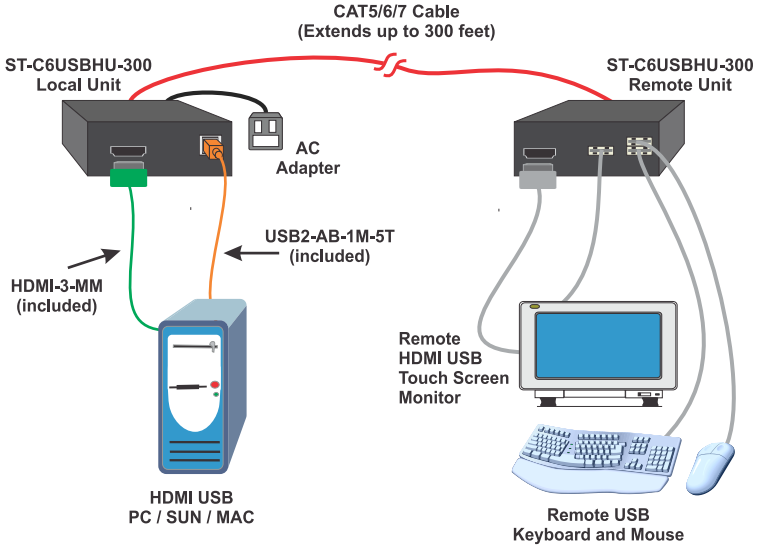
Configuration and Cable Illustration



HDMI USB KVM Extender Models	
NTI Part #	**Supported Features**
ST-C6USBH-300	USB KVM
ST-C6USBHU-300	USB KVM + Additional USB Port
ST-C6USBH-IR-300	USB KVM + IR
ST-C6USBHU-IR-300	USB KVM + Additional USB Port + IR

Distances & Computer Resolutions for CAT5e/CAT6/CAT7 Cables

Cable	Distance (ft)	Maximum Standard Resolution
CAT5e Solid UTP	100	1920x1200 at 60Hz
	75	1600x1200 at 60Hz
	150	1280x1024 at 60Hz
	275	1024x768 at 60Hz
CAT5e Stranded UTP	100	1920x1200 at 60Hz
	75	1600x1200 at 60Hz
CAT5e Stranded Shielded	100	1920x1200 at 60Hz
	50	1600x1200 at 60Hz
	150	1280x1024 at 60Hz
	200	1024x768 at 60Hz
CAT6 Solid UTP (24 AWG)	100	1920x1200 at 60Hz
	75	1600x1200 at 60Hz
CAT6 Solid UTP (23 AWG)	140	1920x1200 at 60Hz
	100	1600x1200 at 60Hz
	200	1280x1024 at 60Hz
	275	1024x768 at 60Hz
CAT6 Solid FTP	100	1920x1200 at 60Hz
	75	1600x1200 at 60Hz
CAT6 Solid Shielded	100	1920x1200 at 60Hz
	75	1600x1200 at 60Hz
	200	1280x1024 at 60Hz
	225	1024x768 at 60Hz
CAT6a Solid	150	1920x1200 at 60Hz
	110	1600x1200 at 60Hz
	250	1280x1024 at 60Hz
	325	1024x768 at 60Hz
CAT7 Solid	175	1920x1200 at 60Hz
	110	1600x1200 at 60Hz
	225	1280x1024 at 60Hz
	350	1024x768 at 60Hz

Distances & HDTV Resolutions for CAT5e/CAT6/CAT7 Cables

Cable	Distance (ft)	Maximum HD Resolution
CAT5e Solid UTP	50	1080p/60Hz/24-bit
	100	1080p/24Hz/24-bit
		1080i/60Hz/36-bit
	150	720p/60Hz/24-bit
	200	480p/60Hz/24-bit
CAT5e Stranded UTP	50	1080p/60Hz/24-bit
	100	1080p/24Hz/24-bit
		1080i/60Hz/36-bit
CAT5e Solid Shielded	50	1080p/60Hz/24-bit
	100	1080p/24Hz/24-bit
		1080i/60Hz/36-bit
CAT5e Stranded Shielded	50	1080p/60Hz/24-bit
	100	1080p/24Hz/24-bit
		1080i/60Hz/36-bit
	150	720p/60Hz/24-bit
	200	480p/60Hz/24-bit
CAT6 Solid UTP (24 AWG)	100	1080p/60Hz/24-bit
CAT6 Solid UTP (23 AWG)	75	1080p/60Hz/36-bit
	100	1080p/60Hz/24-bit
	150	1080p/24Hz/24-bit
	200	1080i/60Hz/36-bit
		720p/60Hz/24-bit
	350	480p/60Hz/24-bit
CAT6 Solid FTP	100	1080p/60Hz/24-bit
CAT6 Solid Shielded	100	1080p/60Hz/24-bit
	200	720p/60Hz/24-bit
	300	480p/60Hz/24-bit
CAT6a Solid	100	1080p/60Hz/36-bit
	125	1080p/60Hz/24-bit
	225	1080p/24Hz/24-bit
		1080i/60Hz/36-bit
	300	720p/60Hz/24-bit
	400	480p/60Hz/24-bit
CAT7 Solid	100	1080p/60Hz/36-bit
	125	1080p/60Hz/24-bit
	250	1080p/24Hz/24-bit
		1080i/60Hz/36-bit
	300	720p/60Hz/24-bit
	400	480p/60Hz/24-bit

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International calls

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Worldwide fax

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