# 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.



**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.

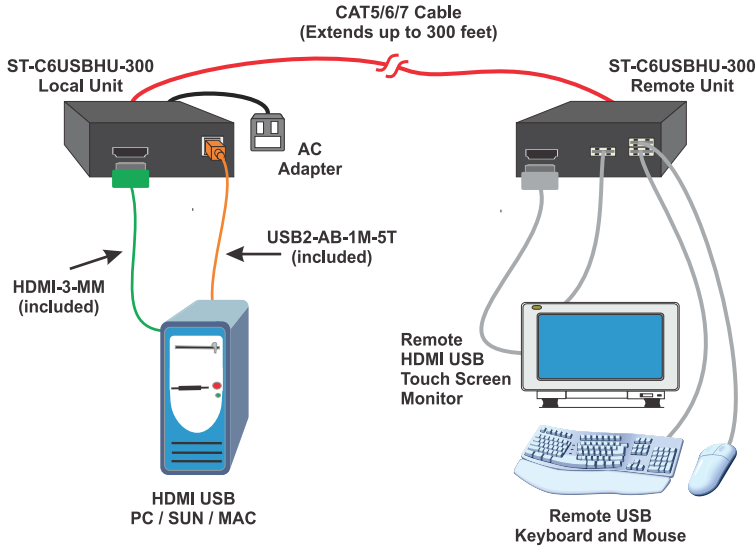### Regulatory Approvals

- CE, RoHS

### 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

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

### Configuration and Cable Illustration



CAT5/6/7 Cable
(Extends up to 300 feet)

ST-C6USBHU-300
Local Unit

ST-C6USBHU-300
Remote Unit

AC
Adapter

USB2-AB-1M-5T
(included)

HDMI-3-MM
(included)

Remote
HDMI USB
Touch Screen
Monitor

HDMI USB
PC / SUN / MAC

Remote USB
Keyboard and Mouse

### 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 and Resolutions for CAT5e, CAT6 and CAT7 Cables

| Cable | Distance | Maximum Standard Resolution |
|---|---|---|
| CAT5e Solid | 100 ft (30 m) | 1080p / 24Hz |
| | | 1080i / 60Hz / 12-bit |
| | | 720p / 60Hz / 12-bit |
| CAT5e Stranded UTP | 100 ft (30 m) | 1080p / 24Hz |
| | | 1080i / 60Hz / 12-bit |
| | | 720p / 60Hz / 12-bit |
| CAT6 Solid UTP | 50 ft (15 m) | 1080p / 60Hz / 12-bit |
| | | 1920x1200 / 60Hz / 8-bit |
| | 75 ft (22 m) | 1080p / 60Hz / 10-bit |
| | | 1080i / 60Hz /12-bit |
| | | 1920x1200 / 60Hz / 8-bit |
| | 150 ft (45 m) | 1080p / 60Hz / 8-bit |
| | | 1080i / 60Hz / 12-bit |
| | 200 ft (60 m) | 1080p / 24Hz |
| | | 1080i / 60Hz / 12-bit |
| | | 720p / 60Hz / 12-bit |
| | 250 ft (76 m) | 1080p / 24Hz |
| | | 1080i / 60Hz /8-bit |
| | | 480p / 60Hz / 12-bit |
| | 300 ft (91 m) | 480p / 60Hz / 12-bit |
| | | 800x600 / 75Hz /8-bit |
| CAT6a Solid UTP | 50 ft (15 m) | 1080p / 60Hz / 12-bit |
| | | 1920x1200 / 60Hz / 8-bit |
| | 75 ft (22 m) | 1080p / 60Hz / 10-bit |
| | | 1080i / 60Hz / 12-bit |
| | 100 ft (45 m) | 1080p / 60Hz / 10-bit |
| | | 1080i / 60Hz / 12-bit |
| | 200 ft (60 m) | 1080i / 60Hz / 12-bit |
| | | 720p / 60Hz / 12-bit |
| | 250 ft (76 m) | 1080i / 60Hz / 8-bit |
| | | 480p / 60Hz / 12-bit |
| | 300 ft (91 m) | 480p / 60Hz / 10-bit |
| Flat CAT7 Stranded STP | 50 ft (15 m) | 1080p / 60Hz / 36-bit |
| | 100 ft (30 m) | 1080i / 60Hz / 36-bit |
| CAT7 Solid STP | 200 ft (60 m) | 1080p / 60Hz / 8-bit |
| | | 1080i / 60Hz / 12-bit |
| | 279 ft (85 m) | 1080p / 24Hz |
| | | 1080i / 60Hz / 8-bit |
| | | 480p / 60Hz / 12-bit |