



ADDERLink™ XD522

KVM Extender



A high resolution video extender with USB2.0 over a single cable

Features

Perfect digital video, real time control

The system is uncompressed, each pixel of the frame is sent without loss and without added latency. The receiver will support DVI or HDMI monitors when using appropriate adapters.

Single CATx cable

Video, USB2.0 (HID-only) and audio all pass along a single cable. A second CATx cable is required for high-speed USB2.0 extension.

Up to 150m/500ft extension distances

Extension of 1920x1080 video using CAT5e cable up to 150m. See table on reverse for further details.

USB2.0

Enables connection of any USB human interface device from mouse and keyboards through to graphics tablets, jog shuttles, joysticks and 3D explorers. Mass storage devices and isochronous devices such as webcams and headsets can be used through the transparent USB2.0 high-speed port.

EDID management

The system has intelligent EDID (Extended Display Identification Data) management to allow the true characteristics of the monitor to be passed back to the computer.

Plug and play

The ADDERLink™ XD522 extender is delivered in a zero configuration state so you can plug the units in and start working with them straight away. There is no need for drivers or software to be installed.

Digital audio

Supports DisplayPort™ audio and a S/PDIF interface via an optical 3.5mm jack socket (dual use with analog audio via mini Toslink).

HD quality analog audio

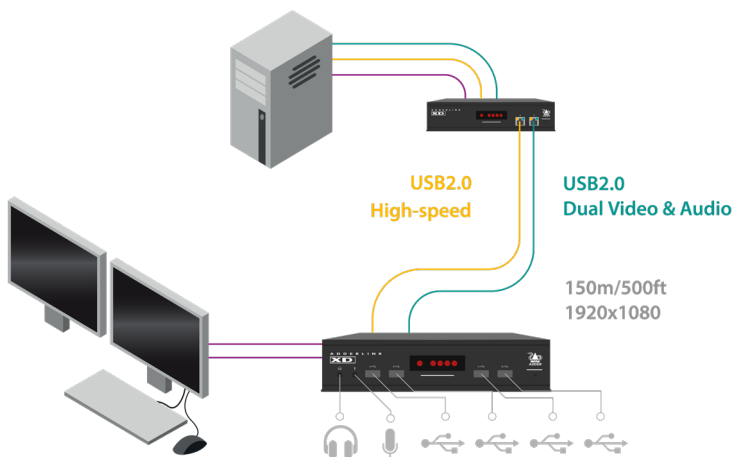
HD audio quality (stereo channel 24 bit sampled at 96kHz) is available to transfer audio from local to remote for line in/line out. Microphone in and headphone use cases are also supported.

Product In Brief

The ADDERLink™ XD522 is a high performance KVM (Keyboard, Video, Mouse) extender that enables you to locate your critical computing hardware in a secure and temperature controlled environment away from the user work station whilst maintaining the same user desktop experience.

It can transmit either two 1920x1200 @60Hz video streams or one higher resolution video stream (3840x2160 @30Hz or 2560x1600 @60Hz resolutions), digital audio (S/PDIF), analog audio, high-speed USB2.0 and USB2.0 (full and low speed) over CATx cables.

- Plug and play
- 4K @30Hz, 2560x1600 @60Hz
- 150m/492ft extension distance for a single 1920x1080 screen
- 100m/328ft extension distance for two 1920x1200 @60Hz screens or a single high resolution screen to 3840x2160 @30Hz or 2560x1600 @60Hz (8-bit)
- Supports 10 bits per color on a single monitor up to 1920x1200 @60Hz
- USB2.0 high-speed for mass storage devices plus: keyboard, mouse tablet and touch
- Supports DisplayPort™ audio, S/PDIF and analog audio
- Full touch screen control with floating launch icon and on screen keyboard



Technical Specifications

Hardware compatibility

- All computers with DisplayPort™, USB, audio, RS232 - requirement dependent

DisplayPort™ interface

- The system supports a maximum of 3840x2160 @30Hz (8bit) or 2560x1600 @60Hz on a single monitor or 1920x1200 @60Hz (10 bit)
- Supports two monitors 1920x1200 @60Hz (8 bit)
- The receiver unit can drive HDMI or DVI monitors with the use of the correct adapter. Content protection is not supported

DisplayPort™ audio

- The system delivers analog stereo audio (line in, line out) & supports microphone input & headphones. It also delivers S/PDIF (optical input) via a 3.5mm jack line in connector (mini Toslink)
- The DisplayPort™ audio path can have up to eight channels of 24-bit 192 kHz uncompressed "Pulse-code modulation" PCM audio or can encapsulate compressed audio formats in the audio stream. Supported compressed formats: DRA, Dolby™ MAT, DTS HD

USB2.0

- Supports up to six USB2.0 devices (low or full speed). HID devices are supported on ports marked "A" and isochronous devices (i.e. USB audio or video devices) on the High speed link only marked "B"

RS232

- RS232 can be passed between the units to a maximum baud rate of 115K2 via the options port

Computer connections transmitter (TX)

- 2x DisplayPort™, 3.5mm Audio in, Audio out 3.5mm, 2x USB Type-B, RS232 10p10c options port

Peripheral Connections Receiver (RX)

- 2x DisplayPort™ ++, Audio 3.5mm in, Audio 3.5mm out, Headphone 3.5mm out, Microphone 3.5mm in, 4x USB Type-A, RS232 10p10c options port

Software compatibility

- All known operating systems

Physical design

- 1U compact case, robust metal construction. 198mm/7.92"(W) x 44mm/1.76"(H) x 120mm/4.8"(D)
- Weight: 0.75kg/1.65lbs

Storage temperature

- 20°C to 70°C/-4°F to 158°F

Humidity

- 10% to 90% (non-condensing)

Altitude

- Max. 2,000m/6,561ft

Power

- 2.5mm DC jack (power adapter included), 100-240VAC 50/60Hz, 0.8A, input to power adapter, 5VDC 20W output from power adapter

Mean time between failure (MTBF)

- 100,000 Hours. Calculated to Telecordia standard SR332 issue 4 March 2016 @55°C

Operating temperature

- 0 to 40°C/32 to 104°F

Approvals

- CE, FCC, RCM, UL

Extension Distance Information

Recommended cables are CAT7 shielded foiled twisted pairs:

Daetwyler 7702 Flexible patch cable
Daetwyler 7120 Bulk cable

Resolution	Cable type	Patch connection	Total distance
2560x1600 @60Hz or two 1920x1080 @60Hz or 4K @30Hz	CAT7 Bulk (Trunk)	0	100m/328ft
2560x1600 @60Hz	CAT7 Patch	2	80m/262ft
2560x1600 @60Hz	CAT6a	2	70m/229ft
2560x1600 @60Hz	CAT5e	2	60m/196ft
Single 1920x1080 @60Hz	CAT5e	2	150m/492ft

Note:

Distances are achieved using single lengths of trunk/bulk cable with two 3m/9ft CAT7a patch cables. For each additional break/patch connection reduce distance by 5m/16ft. Preferably patch cables should be of type CAT7a and less than 2m/6ft. Patch cables over 2m/6ft must be CAT7a.

Ordering Information

XD522-DP-PAIR-XX: Pair including TX and RX units

What's in the Box?

- 1x TX and RX pair
- 2x power supply unit with country specific mains cable
- 2x VSC22: 3m/9.8ft audio cable
- 2x VSC24: 2m/6.5ft USB Type-A to B cable
- 1x VSCD17: 2m/6.5ft high bit-rate DisplayPort™ cable
- 1x VSC40: RS232 to Options port cable
- 1x quick start guide

Accessories (Sold Separately)

RMK4V: VESA mounting bracket (screws included), can also be used to secure to walls and other surfaces

Two 19" rack mount brackets (screws included):

RMK4S: One unit per 1U rack slot

RMK4D: Two units per 1U rack slot

VSCD17: 2m/6ft high bit-rate DisplayPort™ cable

VSC24: 2m/6.5ft USB Type-A to B cable

About Adder

Adder is a leading developer and thought leader in connectivity solutions. Adder's advanced range of KVM switches, extenders and IP solutions enable the control of local, remote and global IT systems across the enterprise. The company distributes its products in more than 60 countries through a network of distributors, resellers and OEMs.

Adder has offices in China, Germany, Japan, the Netherlands, Singapore, Spain, France, Sweden, United Kingdom and United States.

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 DATA SHEET