



Fanless, small form factor,  
Dual DisplayPort, USB,  
Audio and Serial

## ADDERLink XD522

High resolution DisplayPort video extender with USB 2.0 over a single cable



### PRODUCT IN BRIEF

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 video streams or one higher resolution video stream (2560x1600 WQXGA), digital audio (S/PDIF), analog audio, Hi-Speed USB 2.0 and USB 2.0 (full and low speed) over CATx cables.

### FEATURES

- Plug and play
- 150 meter extension distance for a single 1920x1080 screen
- 100 meter extension distance for two 1920x1200 screens or a single high resolution screen to 2560x1600
- Supports a single High Dynamic Range monitor up to 2560x1600 @60Hz 10bit per color
- USB 2.0 Hi-Speed for mass storage devices plus:  
Keyboard, mouse tablet and touch
- Supports DisplayPort Audio, S/PDIF and analog audio

#### USB 2.0

Enables connection of any USB human interface device from mice 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 USB 2.0 Hi-Speed port.

#### EDID Management

The system has intelligent EDID 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 config 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 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.

#### Perfect Digital Video, Real Time Control

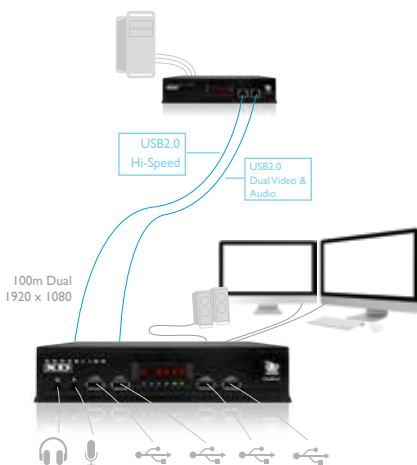
The system is uncompressed, where by every pixel of every frame are sent without loss. The receiver supports DisplayPort Dual Mode (DP++) which means that monitors which only support HDMI or DVI can be used (with the correct adapter cable).

#### Single CATx Cable

Video, USB 2.0 (HID-only) and audio all pass along a single cable. A second CATx cable is required for the Hi-Speed USB 2.0 extension.

#### Up to 150 Meter Extension Distances

Distance is dependent on the monitor resolution, number of monitors, cable type and the number of connection breaks for patch panels and wall plates. See table on reverse for details.



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## EXTENSION DISTANCE INFORMATION

Recommended cables are CAT7 shielded foiled twisted pairs:  
 Daetwyler 7702 Flexible patch cable  
 Daetwyler 7120 Bulk cable

Resolution	Cable type	Patch connections	Total distance
2560x1600 @60Hz or two 1920x1080 @60Hz or 4k@30Hz	CAT7 Bulk (Trunk)	0	100 meters
2560x1600 @60Hz	CAT7 Patch	2	80 meters
2560x1600 @60Hz	CAT6a	2	70 meters
2560x1600 @60Hz	CAT5e	2	60 meters
Single 1920x1080 @60Hz	CAT5e	2	150 meters

### Note:

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

## TECHNICAL SPECIFICATIONS

### Hardware Compatibility

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

### DisplayPort Interface

The system supports resolutions to a maximum of 2560x1600 or two 1920x1200 screens. The receiver unit supports DisplayPort Dual Mode (DP++) also. DPCP and HDCP are not supported.

### USB 2.0

Supports up to six USB 2.0 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 Hi-Speed link only marked "B".

### 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.

### RS232

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

### Software Compatibility

All known operating systems.

### Computer Connections Transmitter (TX)

DisplayPort x 2, Audio 3.5mm in, Audio 3.5mm out, USB type B x 2, RS232 10p10c options port.

### Peripheral Connections Receiver (RX)

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

## ORDERING INFORMATION

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

XX = Mains Lead Country Code:  
 UK = United Kingdom  
 US = United States  
 EURO = Europe  
 AUS = Australia

## ADDITIONAL ACCESSORIES

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

VSCD10: High bit rate DisplayPort 2 meter cable  
 VSC24: USB cable 2m (type A to B)  
 VSC40: RS232 DB9 connector to Options port cable

## MTBF

Min. 50,000 hours based on 100% PSU load. Actual PSU load does not exceed 66%.

## Approvals

CE, FCC.

## Physical Design

1U compact case, robust metal construction. 198mm/7.92" (w), 44mm/1.76" (h), 120mm/4.8" (d), 0.75kg/1.65lbs.

## Power

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

## Operating Temperature

0 to 40°C / 32 to 104°F.

## Storage Temperature

-20°C to 70°C / -4°F to 158°F.

## Humidity

10% to 90% (non-condensing)

## Altitude

Max. 2,000m / 6,561 ft

## RELATED PRODUCTS

Adder offer a vast range of products to suit your needs. Other products you may be interested in include:

ADDERView 4 PRO - DP  
AV4PRO-DP



ADDERLink X DVI PRO  
Multi-Screen  
X-DVIPRO-MS2



ADDERLink INFINITY  
Dual  
ALIF-DUAL



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