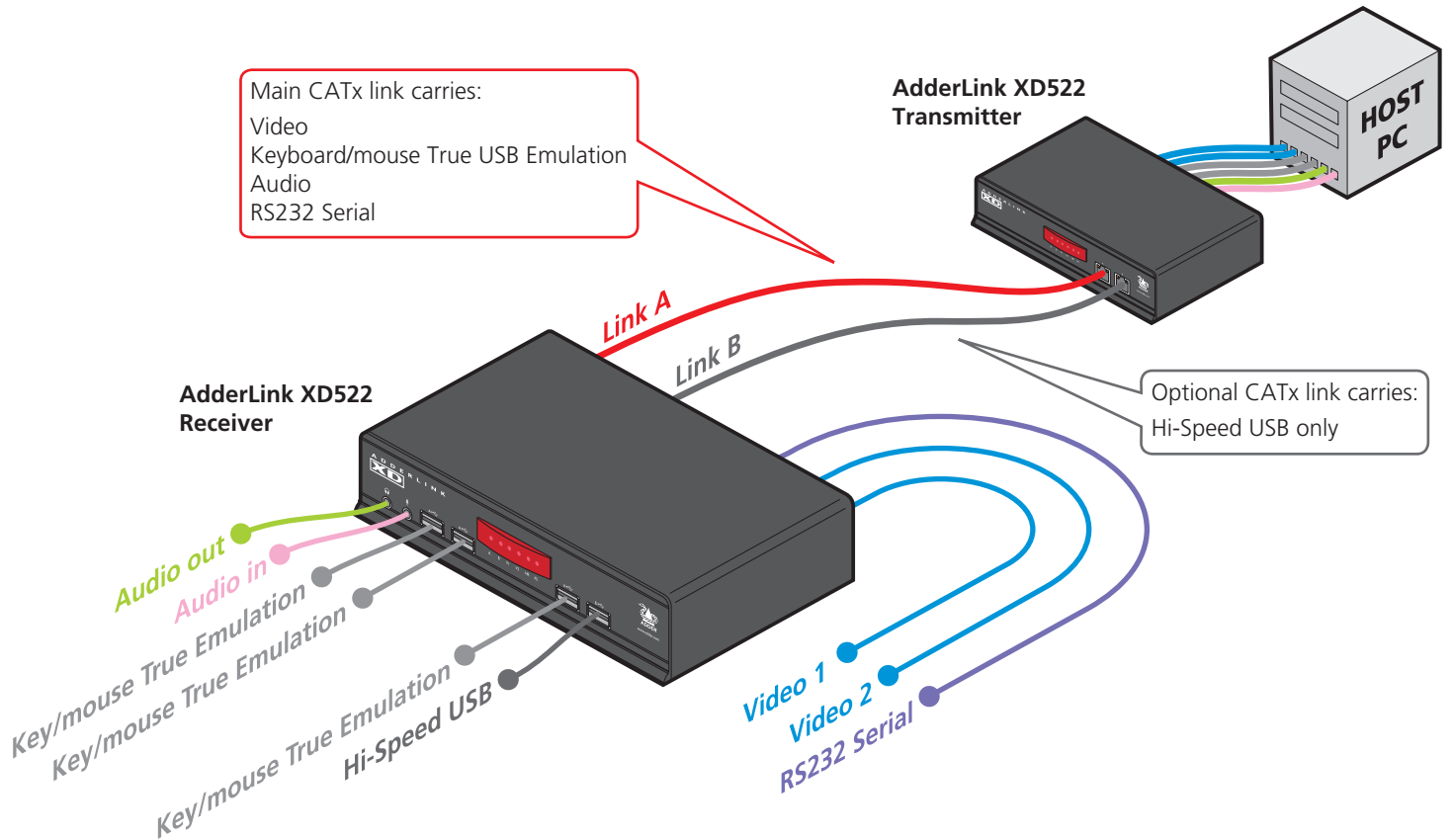




AdderLink XD522 Quick Start Guide



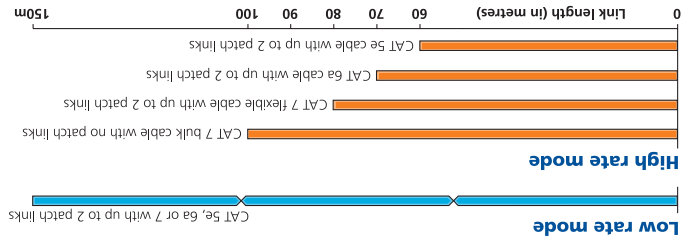
Tips for achieving good quality links

Due to the large volumes of data that must be transferred between the transmitter and receiver, every AdderLink XD522 installation is highly dependent upon good quality CATx cable links. Video performance is particularly reliant on high speed communication channels. For this reason, the AdderLink XD522 units periodically test the link quality to determine which of two video transfer modes can be supported: Low Rate or High Rate. Please see page 3 for details about high and low rate video modes.

The main factors that affect link quality are:

- The length and type of CATx cable used,
- The number, length and type of intermediate patch connections,
- The quality of the cable terminations.

The table below provides a brief overview of distances that may be achieved using different CATx cable types. Please see the full user guide for more details.

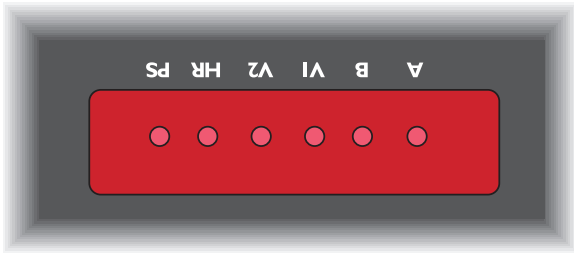


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Web: www.adder.com
Contact: www.adder.com/contact-details
Support: forum.adder.com

- A** On Main A link is connected.
Flashes Main A link is not connected.
Off No power is present.
- B** On Optional B link is connected.
Off Optional B link is not connected.
- V1** On Video port 1 is connected and receiving video.
Flashes Video port 1 is connected but not receiving video.
Off Video port 1 is not connected.
- V2** On Video port 2 is connected and receiving video.
Flashes Video port 2 is connected but not receiving video.
Off Video port 2 is not connected.
- HR** On High Rate mode is active.
Flashes HR mode is preferred but cannot be established, LR mode active.
Off Low Rate mode is active.
- PS** On Power connected.
Flashes Upgrade error (other indicators show error code).
Off No power.

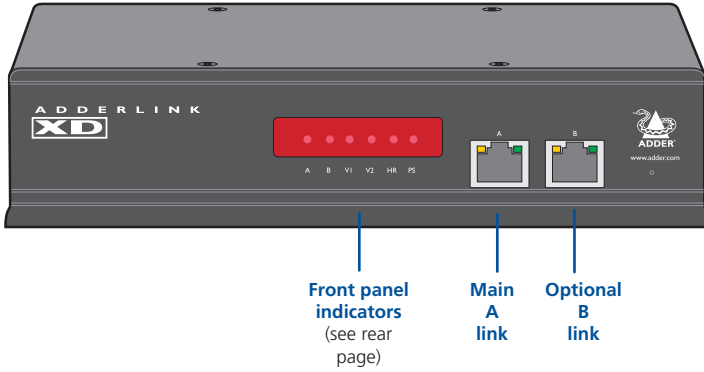


The six front panel indicators on each unit provide a useful guide to operation:

Front panel indicators

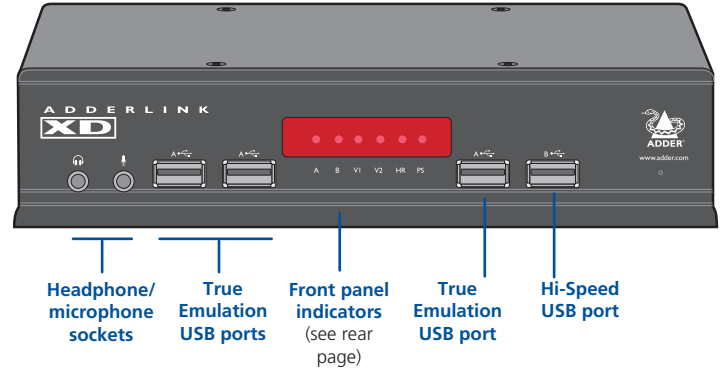
IMPORTANT: Please see the full AdderLink XD522 user guide for safety, warranty and regulatory information. The full user guide is available from www.adder.com.

Transmitter - front



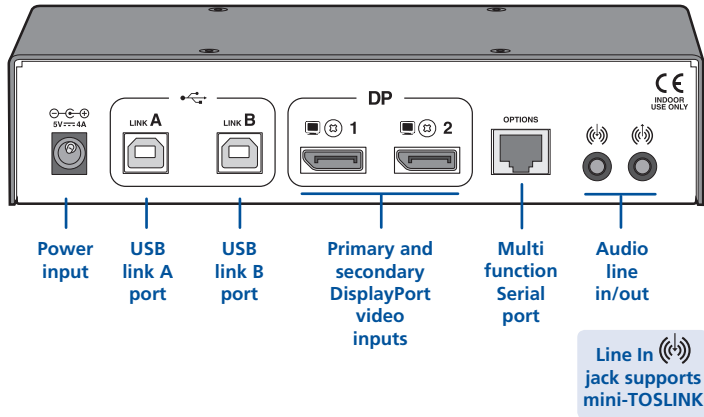
Front panel indicators (see rear page)
Main A link
Optional B link

Receiver - front



Headphone/microphone sockets
True Emulation USB ports
True Emulation USB port
Hi-Speed USB port

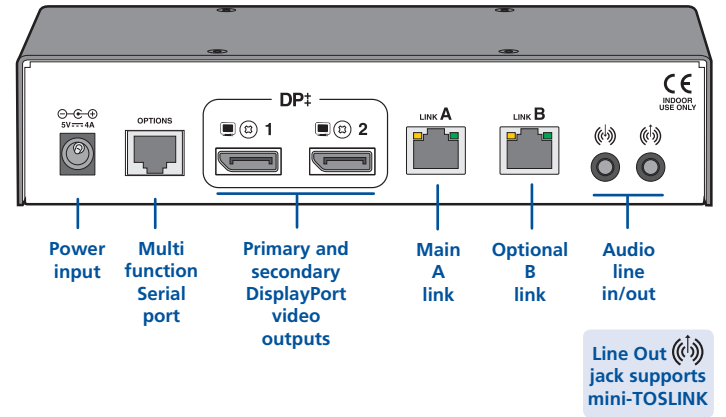
Transmitter - rear



Power input
USB link A port
USB link B port
Primary and secondary DisplayPort video inputs
Multi function Serial port
Audio line in/out

Line In (🔊) jack supports mini-TOSLINK

Receiver - rear



Power input
Multi function Serial port
Primary and secondary DisplayPort video outputs
Main A link
Optional B link
Audio line in/out

Line Out (🔊) jack supports mini-TOSLINK

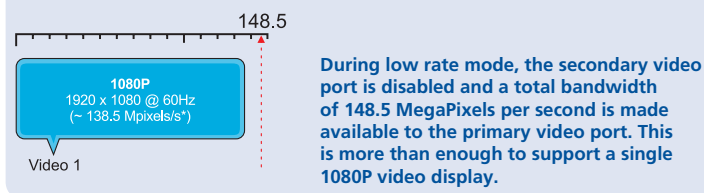
Video support

AdderLink XD522 works hard to transfer the highest possible video bandwidth between the transmitter and receiver units. To allow for the differing grades of CATx links used to join the transmitter and receiver, AdderLink XD522 periodically checks the quality of link A (the primary cable joining the transmitter and receiver). In this way it can accurately determine which of two video transfer modes can be supported. Please see the rear page for details about achieving good quality links.

On the front panel, the **HR** indicator will illuminate when High Rate mode is available, whereupon the available bandwidth for video signals is more than doubled.

The manner in which bandwidth is made available to the two video ports differs between the Low and High Rate modes, as described here:

Low rate mode



Note: The example modes shown here are for illustrative purposes and are based upon average requirements for current video displays. Video displays from some manufacturers may consume more signal bandwidth than those shown here.

* All approximate video mode bandwidth figures are quoted with reduced blanking.

EDID management

AdderLink XD522 intelligently manages the EDID (Extended Display Identification Data) information that each video display provides (detailing their supported resolutions) before reporting them to the host PC. In this way AdderLink XD522 can mask the resolution modes that cannot be supported within the available bandwidth. The display attached to Video port 1 will always be given priority. If sufficient bandwidth does not exist for the modes declared by the second display, then it will not be reported to the host PC.

High rate mode

This diagram indicates how the total bandwidth of the high rate mode can be shared between the two video ports.

Video port 1 (which has priority) may take up 280 MegaPixels per second (of the total 308 Mpix/sec bandwidth); while port 2 can use a maximum of 154 Mpix/sec (subject to port 1 using no more than 154 Mpix/sec of the available total bandwidth).

