



ADDERLink® XD641

KVM Extender



A high-resolution single-head KVM extender. Ultra high-definition 4K60 video, USB2.0 and audio are transmitted on a single CATx or fiber cable.

Features

High-resolution video, real-time control

The system supports resolutions up to 4096x2160 @ 60Hz using 8 bits per color and 4:4:4 chroma sampling. A local pass-through video port is provided at the transmitter (TX).

Single cable

4K60 video, USB2.0 HID (human interface device) and audio are transmitted on a single CATx or fiber cable.

Up to 4km/2.5 mile extension distances

The ADDERLink XD641 supports both copper and fiber interfaces. It provides a range of up to 100m over a CAT6 cable link, and up to 4km over an optical fiber link.

Emulated USB2.0

Enables connection of any full and low speed USB HID from mouse and keyboards through to graphics tablets and joysticks.

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 XD641 extender is delivered in a zero config. state so it works, without the need for drivers or software, as soon as it is connected.

Digital audio

Video: Encapsulates up to eight channels of 24-bit, 192kHz sampled "Pulse-code modulation" (PCM) uncompressed audio integrated with the video signal.

USB: Up to two channels of 24-bit, 96kHz sampled PCM audio.

HD quality analog audio

HD audio quality (stereo audio, 24-bit sampled at 96kHz) is available for line in/out, microphone and headphone/speakers.

Serial communications

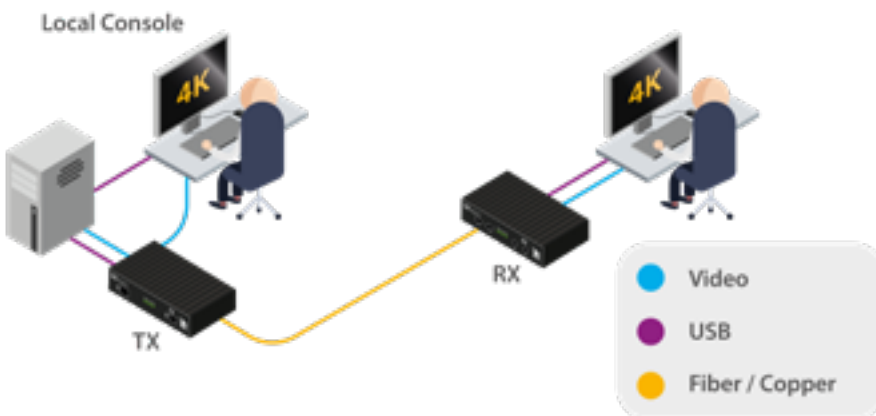
RS232 can be passed between the units to a maximum baud rate 115K2 with RTS/CTS flow control.

Product in Brief

The ADDERLink® XD641 is a high performance KVMA (Keyboard, Video, Mouse and Audio) extender that is designed to provide reliable and real-time access to critical computers – regardless of the location, whilst maintaining the same user desktop experience.

Developed for enterprise organizations and high-pressure control rooms, it combines the simplicity of true plug and play and high performance 4K KVM extension; resulting in superior functionality and flexibility in a cost-effective, reliable and straightforward solution.

- Single head 4K60 video, USB2.0 (HID) and audio are transmitted on a single CATx or fiber cable.
- Point-to-point protocol for ultra-low latency.
- Flexibility between copper and fiber connectivity.
- Adder's USB emulation ensures reliable computer bootup.



Technical Specifications

Video resolutions

- The system supports resolutions up to 4096x2160 @ 60Hz

Software compatibility

- All known operating systems. No drivers required.

Extension technology

- 5Gb/s CATx or 10Gb/s fiber with ultra low latency adaptive video stream compression.

Connections

Local unit - Transmitter (TX)

- 4 x Tri-color status LEDs
- DisplayPort® in and local pass-through out
- 2 x USB2.0 Type B
- Line in and out analog audio
- RJ12 serial port
- RJ45 and SFP+ ports

Remote unit - Receiver (RX)

- 4 x Tri-color status LEDs
- 2 x DisplayPort® out (second port is a duplicate)
- 4 x USB2.0 full speed Type A
- Mic in, headset and speaker out
- RJ12 serial port
- RJ45 and SFP+ ports

Physical Design

Robust metal construction

- TX and RX: 186mm/7.32" (w), 39mm/1.54" (h), 148mm/5.83" (d)
- TX: 1.29kg/2.84lbs
- RX: 1.24kg/2.73lbs

Power supply

- 100-240 VAC, 47/63Hz
- 12 VDC 18W output from power supply unit

Operating temperature

- 0°C to 40°C/32°F to 104°F

Storage temperature

- 10°C to 50°C/14°F to 122°F

Humidity

- 0% to 80% (non-condensing)

Approvals

- UKCA, CE, FCC, ICES, RCM & cULus

Extension Distance

Cable type	Distance
Fiber (SM)	4km/13,123ft
Fiber (MM)	400m/1,312ft
CAT6	100m/328ft
CAT5e	50m/164ft

SM (Single-Mode Fiber)

MM (Multi-Mode Fiber)

CAT6 is recommended for CATx extensions. CATx extensions are limited to 2 patch connections. Patch cables should be CAT6 or better.



ADDERLink XD641 RX - Front & Rear



ADDERLink XD641 TX - Front & Rear

Ordering Information

XD641P-DP-XX: ADDERLink 4K single-head extender

What's in the Box?

- 1x TX and RX pair
- 2x Power supply unit with country specific mains cable
- 1x DisplayPort® cable (VSCD18)
- 1x USB cable (VSC24)
- 1x Audio 2m/6ft cable
- 1x Quick start guide

Accessories (Sold separately)

- RMK15:** Rack mount kit
- VSCD18:** High bit rate DisplayPort® 2m/6ft cable
- VSC50:** Serial cable, RJ12 to RS232
- SFP-SM-LC-10G:** Single mode 10G SFP with LC connectors
- SFP-MM-LC-10G:** Multi-mode 10G SFP with LC connectors

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

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