



# ADDERLink™ XD642

KVM Extender

A high-resolution dual-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.

### Single cable

Video, audio, USB HID (human interface device), hi-speed transparent USB and RS232 signals are transmitted over a single CATx or fiber cable.

### Up to 4km/2.5 mile extension distances

The ADDERLink XD642 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.

### Transparent USB2.0

Mass storage devices and isochronous devices, such as webcams and audio headsets can be used through the transparent USB2.0 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 XD642 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 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 or speakers.

### Serial communications

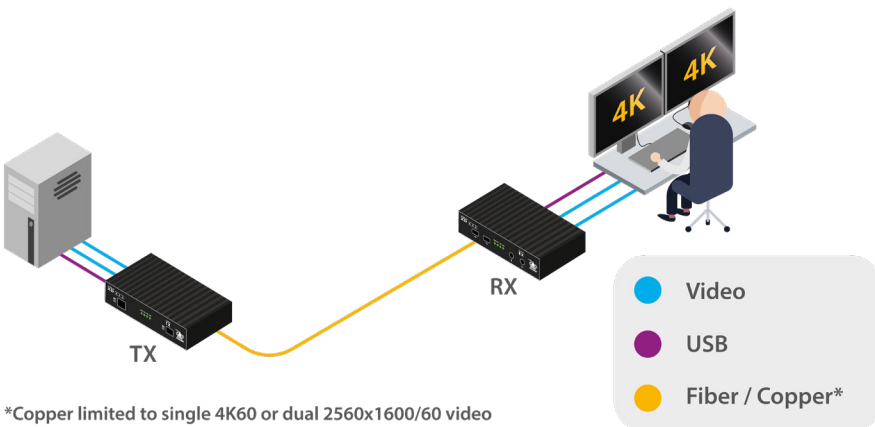
RS232 can be passed between the units to a maximum baud rate 115K2 with RTS/CTS flow control.

## Product in Brief

The ADDERLink XD642 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.

- Dual-head 4K60 video, USB2.0 and audio
- 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
- 2 x DisplayPort™ in
- 1 x USB2.0 Type B for HID
- 1 x USB2.0 Type B for hi-speed
- 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
- 3 x USB2.0 full speed Type A
- 1 x USB2.0 transparent hi-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

- CE, FCC

### Extension Distance

| Cable type | Distance     |
|------------|--------------|
| Fiber (SM) | 4km/13,123ft |
| Fiber (MM) | 300m/984ft   |
| 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 short patch connections. Patch cables should be CAT6 or better.



ADDERLink XD642 RX - Front & Rear



ADDERLink XD642 TX - Front & Rear

## Ordering Information

**XD642P-DP-XX:** ADDERLink 4K dual-head extender

### What's in the Box?

- 1x TX and RX pair
- 2x Power supply unit with country specific mains cable
- 2x DisplayPort™ cable (VSCD17)
- 1x USB cable (VSC24)
- 1x Audio 2m/6ft cable
- 1x Quick start guide

## Accessories (Sold separately)

- RMK15:** Rack mount kit
- VSCD17:** 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