ADDERLink® XD642 R

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

A high performance KVMA extender that is designed to provide reliable and real-time access to critical computers while 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 for superior functionality and flexibility.

Features

Dual-Head DCI 4K60 Video
Supports Dual-head 4096x2160@60Hz (DCI 4K60) with 24-bit colour and 4:4:4 chroma. A fiber connection is required for dual 4K60 operation, however dual 2560 × 1600@60Hz is supported over CATx cable.

Up to 4km Extension
Supports both copper and fiber interfaces. Provides a range of up to 100m/328ft over a CAT6 cable link, and up to 4km/2.5 miles over an optical fiber link (Fiber SFP modules sold seperately).

Emulated and Hi-Speed USB 2.0
USB 2.0 emulation ensures reliable connection of full and low speed HID devices (mouse or keyboard). Mass storage devices and isochronous devices, such as webcams and audio headsets can also be used through the transparent USB 2.0 Hi-Speed port.

Plug and Play
Uses a low-latency point-to-point protocol over a single CATx or fiber cable that works as soon as it is connected. No network set-up, driver or software is required.

Digital Audio over DisplayPort
Supports up to eight channels of 24-bit, 192kHz sampled PCM audio over the DisplayPort connection.

Analog Audio
Plug analog line in/out and headphones directly into the receiver. Audio is transmitted as bi-directional stereo 24-bit/96kHz using either analog or USB connection to the host.

Monitor Compatability
EDID management allows the monitor capabilities to be passed back to the host computer for optimum compatability.

Serial communications
RS232 can be passed between the units to a maximum rate of 115200 baud with RTS/CTS flow control.

Video Information (1 Screen)

Maximum Resolution (1 Screen)	4096 x 2160
Frame Rate (1 Screen)	60 Hz
Color Depth (1 Screen)	8 bpc

Video Information (2 Screen)

Maximum Resolution (2 Screens)	4096 x 2160
Frame Rate (2 Screens)	60 Hz
Color Depth (2 Screen)	8 bpc

Video Additional Information

Video Additional Information	2x 4K60 requires a fiber connection

Console Connections

USB A	3x 2.0, True Emulation (HID Only),Full Speed
USB A	1x 2.0, Transparent,High Speed
Full Size DisplayPort	2x 1.2

Link Ports

8p8c (RJ45)	1x
SFP+	1x

Serial Ports

Serial Connection	1x RS232
Maximum Baud Rate	115200
Serial Additional Information	with RTS/CTS flow control
Serial Connection Type (console)	RJ12 (6p6c)

Audio Connections

Audio Type	Analog/Digital
Channels	2x
Audio Direction	Bi-directional
Audio Additional Information	Also supports 8 channels of 24-bit/192kHz PCM audio over the DisplayPort connection
Size (bit)	24
Speed (kHz)	96
Audio In Port	1x 3.5mm jack
Audio Out Port	2x 3.5mm jack

Cable Requirements

CAT5e	50m / 164ft

CAT6 (SFTP)	100m / 328ft
Fiber (MM)	400m / 1312ft
Fiber (SM)	4,000m / 13123ft

Network Support

10/100 Support	No

Environmental

Operating Temperature Range °C / °F	0 to 40 °C / 32 to 104 °F
Storage Temperature °C / °F Range	-10 to 50 °C / 14 to 122 °F
Operating Humidity (%)	0% - 80% (non-condensing)
Storage Humidity (%)	0% - 80% (non-condensing)
Altitude m/ft	2,000 / 6562
Mean Time Between Failure (MTBF)	500,000 h
MTBF Standard	Telcordia SR332 Issue 4 March 2016 Calculated @ 55C
Temperature Regulation	Fanless

Power Source

12V 3-pin	1x
Input Power Supply	PSU 18W
Power Additional Information	100-240 VAC, 47/63Hz . 12 VDC 18W output from power supply unit

Physical Design

Construction Material	Robust metal construction
Width (mm) / (in.)	186 / 7.3
Height (mm) / (in.)	39 / 1.5
Depth (mm) / (in.)	148 / 5.8
Weight (kg) / (lb)	1.24 / 2.7

Front Panel Features

Multi color status LEDs	4x

Compatibility

OS Compatibility	All known operating systems

Approvals and Standards

Approvals	CE, cULus - E476334, FCC, ICES, RCM, UKCA
Standards	ANSI 63.4, EN/IEC 62368-1, EN55032 /CISPR 32, EN55035/CISPR 35, EN61000-3-2, EN61000-3-3,

	EN63000, FCC pt15B, ICES003
Other	Cal Prop 65, China ROHS, EU REACH, UK REACH

What's in the Box?
1x TX and RX pair
2x Power supply unit with country specific mains cable
2x DisplayPort™ cable (VSCD18)
1x USB cable (VSC24)
1x Quick start guide

Ordering Information	
XD642-DP-XX	ADDERLink 4K dual-head extender

Related Accessories (Sold Separately)
ADDER® VSCD DisplayPort™ Cable
ADDER® SFP-SM-LC-10G
ADDER® SFP-MM-LC-10G
ADDER® Rackmount Kit RMK15-SH