A single-link, single-head digital video and USB2.0 fanless KVM extender that runs over a single cable using your standard IP network.

ADDERLink® INFINITY 1002 is a high performance KVM extender that forms part of the ADDERLink INFINITY matrix solution. This enables you to locate your critical computing hardware in a secure and temperature controlled environment away from the user work station, while maintaining a pixel-perfect desktop experience.

ADDERLink® INFINITY 1002R

Perfect Digital Video, Real-Time Control

Using a spatially-lossless encoding system, with 1:1 pixel mapping, ADDERLink INFINITY provides pixel-perfect and color accurate video with no artefacts. The digital video you receive is the same as the digital video leaving the remote computer.

Unlimited Extension Distances

Extension distance is not limited to a single 100 meter cable length. If you need to extend further, simply add a 1GbE network device to achieve an additional 100 meters, which can be repeated many times. Also fitted with SFP cages to accept fiber optic transceivers for much greater distances.

Support for Dithered Video

Allows analog or noisy video to pass through the system along with computers that dither the video to enhance the perceptive image quality. Some Mac computers use this technique.

Standard IP Technology

Using standard IP technology allows a choice of CATx or fiber connections. Resilience is offered by the optional 2nd network port which provides teaming facility for load balanced and critical systems.

USB 2.0 with Class Control

Supports USB devices including graphics tablets, jog shuttles, joysticks and 3D explorers, alongside mass storage devices. For secure applications, the system can disable the use of non-HID devices, meaning there is no need to physically block USB ports to prevent the use of mass storage devices.

ADDERLink INFINITY Matrix

With the addition of the ADDERLink INFINITY Management (AIM) system, you can turn multiple point-to-point extenders into a scalable digital KVM matrix system that allows any workstation to link with any computer connected to the network.

EDID Management

Intelligent EDID management allows the true characteristics of the monitor to be passed back to the computer. This ensures perfect video display without additional configuration.

Redundant Network Operation

The units support network teaming allowing for full network redundancy and increased resilience for mission-critical applications.

Plug and Play

ADDERLink INFINITY devices are delivered in a zero config state so you can plug them in and start working on them straight away. There is no need for drivers or software to be installed.

Analog Audio

The ALIF1002 supports bi-directional stereo audio input via 3.5mm jack connectors.

Video Information (1 Screen)	
Maximum Resolution (1 Screen)	1920 x1200
Frame Rate (1 Screen)	60
Color Depth (1 Screen)	8 bpc

Console Connections	
USB A	4x 2.0,
DVI-D	1x

Link Ports	
8p8c (RJ45)	1x
SFP	1x

Serial Ports	
Serial Connection	1x RS232
Maximum Baud Rate	115,200
Serial Additional Information	RS232 9-pin D-type

Audio Connections	
Audio Type	Analog
Channels	2x
Audio Direction	Bi-directional
Size (bit)	16
Speed (kHz)	48
Audio In Port	1x 3.5mm jack
Audio Out Port	1x 3.5mm jack

Cable Requirements	
	0m / 0ft
	0m / 0ft
	0m / 0ft
CAT7	300m / 984ft

Network Support	
Bandwidth	1GbE
10/100 Support	No

Environmental	
Operating Temperature Range °C / °F	0 to 40 °C / 32 to 104 °F

Storage Temperature °C / °F Range	0 to 40 °C / 32 to 104 °F
Operating Humidity (%)	5% - 90% (non-condensing)
Storage Humidity (%)	-10% - 90% (non-condensing)
Altitude m/ft	2,000 / 6562
Mean Time Between Failure (MTBF)	600,000 h
MTBF Standard	Telcordia SR332 Issue 4 March 2016 Calculated @ 55C
Temperature Regulation	Fanless

Power Source	
5V	1x
Input Power Supply	External Power Supply Unit (see manual)

Power Consumption	
Maximum Power (Watts)	20
Typical Power (Watts)	10

Physical Design	
Construction Material	Robust metal construction
U size	1
Width (mm) / (in.)	198 / 7.8
Height (mm) / (in.)	44 / 1.7
Depth (mm) / (in.)	150 / 5.9
Weight (kg) / (lb)	1.1 / 2.4

Compatibility	
OS Compatibility	All known operating systems

Approvals and Standards	
Approvals	CE, cULus - E476334, FCC, ICES, RCM, UKCA
Standards	ANSI 63.4, EN55032 /CISPR 32, EN55035/CISPR 35, EN63000, FCC pt15B, ICES003
Other	Cal Prop 65, China ROHS, EU REACH, UK REACH

What's in the Box?

1x ALIF1002 Receiver

1x PSU-IEC-5VDC-4A: Mains power supply

1x IEC PSU cable of country code

Ordering Information

ALIF1002R-XX	ALIF1002 Receiver

Related Accessories (Sold Separately)

ADDER® Rack Mount Kit RMK4S

ADDER® DVI-D Single-Link Cable

ADDER® Rackmount Kit RMK4D-R2

ADDER® VSC24 USB Cable

ADDER® Rackmount Kit RMK4V

ADDER® SFP-SM-LC

ADDER® SFP-CATX-RJ45

ADDER® SFP-MM-LC

Adder and the Adder logo are trademarks of Adder Technology Ltd, Cambridge, UK. All other trademarks are the property of their respective owner and may be registered in the United States Patent and Trademark Office and in other countries. Information contained in this data sheet is up-to-date and correct as at the date of issue. As Adder Technology cannot control or anticipate the conditions under which this product may be used, each user should review the information in the specific context of planned use. Images are for illustrative purposes only. Adder reserves the right to make changes to this specification without notice.

Copyright 2026 | Adder Technology Ltd.