



## Dual-head digital video, audio, and USB2.0 over 1GbE IP network.

A high performance KVM extender that allows critical computing hardware to be stored in a secure and temperature-controlled environment, while providing an 'at-the-PC' experience across distances up to 20km. The solution can be used as a point-to-point extender or integrated into a matrix system with the ADDERLink® INFINITY Manager (AIM).

## ADDERLink® INFINITY Dual 2020R

### 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 received 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.

### 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.

### Standard IP Technology

Using standard IP technology allows a choice of single structured cable (CATx) or fiber connection achieving reliable links without interference. The ADDERLink INFINITY Dual 2020 also offers the option of up to 20km distances with fiber.

### Support for Mac Pro® (Dithered Video)

A "dithering" technique seen with graphics cards can give the appearance of a deeper color depth than is true, which can significantly increase the normal video data rates. ALIF2020 has a "Magic Eye" feature which supports dithering without allowing it to degrade overall link performance.

### ADDERLink INFINITY Matrix

With the addition of the ADDERLink INFINITY management system (AIM) 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. See the AIM datasheet for details.



ADDERLink® INFINITY Dual 2020R



### 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 ALIF2020 supports bi-directional stereo audio input via 3.5mm jack connectors.

### Video Information (1 Screen)

<b>Maximum Resolution (1 Screen)</b>	1920 x 1200
<b>Frame Rate (1 Screen)</b>	60 Hz
<b>Color Depth (1 Screen)</b>	8 bpc

### Video Information (2 Screen)

<b>Maximum Resolution (2 Screens)</b>	1920 x 1200
<b>Frame Rate (2 Screens)</b>	60 Hz
<b>Color Depth (2 Screen)</b>	8 bpc

### Video Additional Information

<b>Video Additional Information</b>	The system supports two Single Link DVI-D resolutions to a maximum of 1920 x 1200 @ 60Hz.
-------------------------------------	---

### Console Connections

<b>USB A</b>	4x 2.0, True Emulation, Full Speed, Low Speed, High Speed
<b>DVI-D</b>	2x

### Link Ports

<b>8p8c (RJ45)</b>	1x
<b>SFP</b>	1x

### Serial Ports

<b>Serial Connection</b>	1x RS232
<b>Maximum Baud Rate</b>	115,200
<b>Serial Additional Information</b>	RS232 can be passed between the units to a maximum baud rate 115K2.

### Audio Connections

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

### Network Support

<b>Bandwidth</b>	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 (%)**

10% - 90% (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

**5V**

1x

### Power Consumption

**Maximum Power (Watts)**

20

**Typical Power (Watts)**

12

### 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

**System Requirements**

Isochronous devices are not supported (e.g. USB audio or video devices).

### 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



ADDERLink® INFINITY Dual 2020R

#### What's in the Box?

1x ALIF2020 Receiver

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

1x IEC PSU cable of country code

#### Ordering Information

ALIF2020R-XX

ALIF2020 Receiver

#### Related Accessories (Sold Separately)

ADDER® Rack Mount Kit RMK4S

ADDER® Rackmount Kit RMK4D-R2

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.