



# ADDERLink® INFINITY 2102

IP KVM Matrix

DisplayPort™  
Connectors



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

Part of the ADDERLink INFINITY 2000 Series

### Features

#### Perfect digital video, real time control

Using a spatially-lossless encoding system, with 1:1 pixel mapping, the ADDERLink INFINITY (ALIF) 2102 provides pixel-perfect and color accurate video with no artifacts. The digital video received is the same as the digital video leaving the remote computer.

#### Single CATx cable or fiber with immunity from interference

Using standard IP technology allows a connectivity choice of single structured cable (CATx) or fiber, achieving reliable links without interference.

#### Extension distances

Extension distance is not limited to a single 100m/328ft cable length - it can be extended further by adding 1GbE network device to achieve an additional 100m/328ft. The units are fitted with SFP cages to accept fiber optic transceivers which enable much greater extension distances of up to 20km/12mi.

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

Some graphics cards use a technique called dithering to give the appearance of a deeper color depth than is actually the case. Dithering can significantly increase the normal video data rates. The ALIF2102 TX has a feature called Magic Eye which supports dithering without allowing it to degrade overall link performance.

#### USB2.0 with class control

Enables connection of USB devices such as mouse and keyboard, graphics tablets, jog shuttles, joysticks, and 3D explorers, alongside mass storage devices. For applications where security is of high importance, the system has the ability to 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.

#### 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.

#### Plug and Play

All ALIF extender 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.

#### Redundant network operation

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

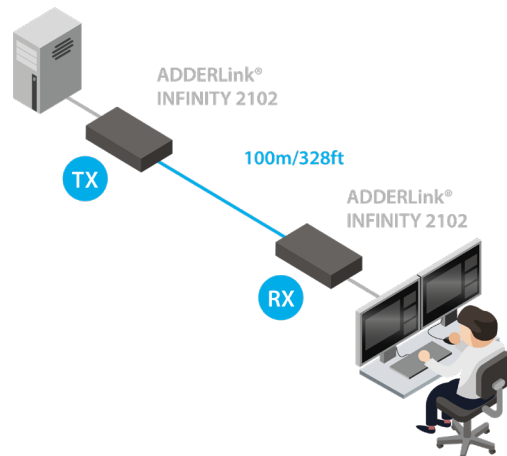
#### ADDERLink INFINITY Matrix

With the addition of the ADDERLink INFINITY Management System (AIM), multiple point-to-point extenders can be turned into a truly scalable digital KVM matrix system, that allows any workstation to link with any computer connected to the network. For more information visit: [adder.com/infinity](http://adder.com/infinity)

### Product In Brief

The ADDERLink INFINITY 2102 is a high performance IP KVM (Keyboard, Video and Mouse) extender that forms part of the ALIF matrix solution. This enables the relocation of critical computing hardware into a secure and temperature controlled environment away from the user work station; whilst maintaining a pixel-perfect desktop experience.

- Plug and play
- 100m/328ft extension distance on a single CATx; greater extension distances using a standard IP network
- Up to 500m/1640ft to 20km/12mi over a single length of fiber
- Video resolutions up to 1x 2560x1600 @60Hz or 2x 1920x1200 @60Hz
- USB mass storage devices supported plus keyboard, mouse, tablet and touch
- Support for Mac Pro®
- Redundant network operation
- Dual touch screen support including onscreen keyboard and floating launch button



## Technical Specifications

### Operating Systems and Software Compatibility

- Software: All commonly known software and operating systems including Windows®, Linux®, macOS®, and Sun OS.
- Hardware: RS232 is supported via USB to RS232 accessory

### Video resolutions

- The system supports up to 1x 2560x1600 @60Hz or 2x 1920x1200 @60Hz

### USB2.0 with class control

- Supports USB2.0 devices (low, full and high speed). Security feature allows the blocking of non-HID devices
- Isochronous devices are not supported (e.g. USB audio or video devices)

### Audio

- USB audio 2 channel, 16bit @ 48KHz (Bi-directional)

### Serial Comms

- RS232 or other serial standards can be passed between the units to a maximum baud rate of 115,200 by using serial to USB converters

### Computer connections transmitter (TX)

- 2x DisplayPort™ connections, 1x 3.5mm socket for Audio in, 1x USB Type B, 1x USB Type A for auxiliary connections, 1x 8p8c and 1x SFP for 1GbE network connections

### Peripheral connections receiver (RX)

- 2x dual-mode DisplayPort™ connections, 1x 3.5mm socket for Audio out, 1x 3.5mm socket for headset/microphone, 4x USB Type A, 1x 8p8c and 1x SFP for 1GbE network connections

### Physical design

#### Receiver (RX)

- 1U compact case, robust metal construction
- Dimensions: 39mm/1.5"(H) x 186mm/7.3"(W) x 150mm/5.9"(D)
- Weight: 1.1kg/ 2.4lbs

#### Transmitter (TX)

- 1U compact case, robust metal construction
- Dimensions: 39mm/1.5"(H) x 136mm/5.3(W) x 150mm/5.9"(D)
- Weight: 0.8kg/1.7lbs

### Approvals

- CE, UKCA, FCC, ICES, cULus

### Power

- External power supply
- Input: 100-240V AC 47/63Hz
- Output: 12V 1.5A (18W)
- Typical power consumption: 7W

### Operating temperature

- Operating temperature: 0 to 40°C/32 to 104°F
- Storage temperature: 0 to 40°C/32 to 104°F
- Storage and operating relative humidity: 10-90% non-condensing
- Altitude: < 2000m

### Mean Time Between Failure

- ALIF2102T 461,000 hrs
  - ALIF2102R 345,000 hrs
- Calculated according to Telcordia SR332 Issue 4 @55°C



ADDERLink INFINITY 2102 TX & RX - Rear

## Ordering Information

**ALIF2102T-XX:** ALIF2102 Transmitter

**ALIF2102R-XX:** ALIF2102 Receiver

(XX= Mains Lead Country Code)

### What's in the Box?

**ALIF2102R-XX:** ALIF2102 Receiver

1x PSU

1x IEC cable

**ALIF2102T-XX:** ALIF2102 Transmitter

2x 2m/6.5ft DP cable

1x 2m/6.5ft USB cable

1x 2m/6.5ft Audio cables

1x PSU and IEC lead

## Accessories (Sold Separately)

**PSU-IEC-12VDC-1.5A:** IEC power supply

**VSCD17:** 2m/6.5ft DisplayPort™ cables

**Rack mounts for RX units:**

**RMK15:** 2 units in 1U

**Rack mounts for TX units:**

**RMK17:** 3 units in 1U

**RMK17-BP:** 1/3 width blanking plates x2 for RMK17

**SFP-MM-LC:** 1GbE Multimode SFP fiber modules with LC connectors

**SFP-SM-LC:** 1GbE Single mode SFP fiber modules with LC connectors

**SFP-CATX-RJ45:** 1GbE SFP for CATX cable

## 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.

To find out more, visit: [adder.com](http://adder.com)

#### Global Headquarters

Tel: +44 (0)1954 780044 | Fax: +44 (0)1954 780081  
Email: [sales@adder.com](mailto:sales@adder.com)

#### Americas

Tel: +1 888 932 3337 | Fax: +1 888 275 1117  
Email: [usasales@adder.com](mailto:usasales@adder.com)

#### Asia Pacific

Tel: +65 6288 5767 | Fax: +65 6284 1150  
Email: [asiasales@adder.com](mailto:asiasales@adder.com)

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. Copyright 2021 | Adder Technology Ltd. | ADDER\_DS083\_EN\_v13\_WEB  
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**®  
THE IP KVM PEOPLE

DATA SHEET

Adder Technology Limited, West Walk Building, 110 Regent Road, Leicester, LE1 7LT  
(Registered in England and Wales No. 01823478)