

High performance ZeroU™ IP KVM dongle for extension or matrix of video, audio and USB over a single cable.

ADDERLink® INFINITY 102T (ALIF102T) is an IP KVM extender delivering video, audio and USB over a single cable in a ZeroU form factor. Part of the ADDERLink INFINITY range, the ALIF102T enables the use of standard IT infrastructure to extend computers away from the user environment.

# **ADDERLink® INFINITY 102T HDMI**

**Matrix** 

#### **Features**



### **ZeroU Form Factor**

The ADDERLink INFINITY 102T (ALIF102T) takes ZeroU of rack space in the server room allowing for ultimate flexibility and ease of installation.



### Perfect Digital Video, Real-Time Control

Using a spatially lossless encoding system, with 1:1 pixel mapping, the ALIF102T 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.



#### **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.



# **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.



#### Flexible and Scalable Extender or Switch

Each ALIF102T model can be configured as part of a simple extender or self-managed distributed KVM switch. Each receiver can see up to 16 sources and rapidly switch between them.



#### **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.

1





## **Digital Audio**

The system can deliver USB stereo audio (bidirectional) or embedded video standard stereo audio (uni- directional).



# **USB Powered**

Using under 3 Watts, the device can be powered from USB. This means there is no need to provision for an external PSU. Options for powering from an external PSU or redundant PSU are available.



## **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**

ADDERLink INFINITY devices are delivered in a zero configuration 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.

Maximum Resolution (1 Screen)         2560 x 1600           Frame Rate (1 Screen)         60           Color Depth (1 Screen)         8 bpc           Computer Connections           USB A         2x 2.0, True Emulation, Full Speed, Low Speed, High Speed           HDMIP         1x           Link Ports         1x           8p8c (RJ45)         1x           Audio Connections         1x           Audio Type         Digital           Channels         2x           Audio Direction         Bi-directional           Audio Direction         Bi-directional           Audio Information         HDMI Audio 2 channel linear PCM           Size (bit)         16           Speed (kHz)         48           Audio In Port         1x USB           Cable Requirements         100m / 328ft           CAT5e and above         100m / 328ft           Network Support         No           Bandwidth         1GbE           10/100 Support         No           Environmental         Volume Type Color (Screen Support)           Storage Temperature Range "C/"F Range         0 to 40 °C / 32 to 104 °F           Storage Humidity (%)         10% - 90% (non-condensing)	Video Information (1 Screen)	
Computer Connections         Sepec           USB A         2x 2.0. True Emulation, Full Speed, Low Speed, High Speed           HDMI*         1x           Link Ports         Speed           8p8c (RJ45)         1x           Audio Connections         Ugistal           Audio Type         Digital           Channels         2x           Audio Direction         Bi-directional           Audio Additional Information         HDMI Audio 2 channel linear PCM           Size (bit)         16           Speed (kHz)         48           Audio In Port         1x USB           Cable Requirements         Usas B           CAT5e and above         100m / 328ft           Network Support         No           Bandwidth         1GbE           10/100 Support         No           Environmental         Operating Temperature Range °C / °F         0 to 40 °C / 32 to 104 °F           Operating Temperature °C / °F Range         0 to 40 °C / 32 to 104 °F           Operating Humidity (%)         10% - 90% (non-condensing)           Storage Humidity (%)         10% - 90% (non-condensing)           Altitude m/ft         2,000 / 6562           Mean Time Between Failure (MTBF)         1,200,000 h	Maximum Resolution (1 Screen)	2560 x 1600
USB A 2x 2.0, True Emulation, Full Speed, Low Speed, High Speed HDMI® 1x  Link Ports 8p8c (RJ45) 1x  Audio Connections  Audio Type Digital Channels 2x Audio Direction Bi-directional Audio Additional Information HDMI Audio 2 channel linear PCM Size (bit) 16 Speed (kHz) 48 Audio In Port 1x USB  Cable Requirements CAT5e and above 100m / 328ft  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 Storage Humidity (%) 10% - 90% (non-condensing) Storage Humidity (%) 10% - 90% (non-condensing) Altitude m/ft 2,000 / 6562 Mean Time Between Failure (MTBF) 1,200,000 h MTBF Standard Telecordia SR332 Issue 4 March 2016 Calculated @ 55C	Frame Rate (1 Screen)	60
USB A Speed  HDMI° 1x  Link Ports  ByBc (RJ45) 1x  Audio Connections  Audio Type Digital  Channels 2x  Audio Direction Bi-directional  Audio Additional Information HDMI Audio 2 channel linear PCM  Size (bit) 16  Speed (kHz) 48  Audio In Port 1x USB  Cable Requirements  CATSe and above 100m / 328ft  Network Support  Bandwidth 1GbE  10/100 Support No  Environmental  Operating Temperature Range °C / °F Storage Temperature Range °C / °F Storage Temperature Range °C / °F Storage Humidity (%) 10% - 90% (non-condensing)  Storage Humidity (%) 1,200,000 h  MTBF Standard Environmental Range °C / °C  Mean Time Between Failure (MTBF) 1,200,000 h  MTBF Standard Telcordia SR332 Issue 4 March 2016 Calculated @ 55C  Power Source	Color Depth (1 Screen)	8 bpc
HDMI°         1x           Link Ports         Page (RJ45)         1x           Audio Connections         Joigital           Audio Type         Digital           Channels         2x           Audio Direction         Bi-directional           Audio Additional Information         HDMI Audio 2 channel linear PCM           Size (bit)         16           Speed (kHz)         48           Audio In Port         1x USB           Cable Requirements         CATSe and above         100m / 328ft           Network Support         1GbE           Bandwidth         1GbE           10/100 Support         No           Environmental         Vo           Corage Temperature Range °C / °F         0 to 40 °C / 32 to 104 °F           Storage Temperature Range °C / °F Range         0 to 40 °C / 32 to 104 °F           Operating Humidity (%)         10% - 90% (non-condensing)           Storage Humidity (%)         10% - 90% (non-condensing)           Altitude m/ft         2,000 / 6562           Mean Time Between Failure (MTBF)         1,200,000 h           MTBF Standard         Telcordia SR332 Issue 4 March 2016 Calculated @ 55C	Computer Connections	
HDMI®         1x           Link Ports         PBPBC (RJ45)         1x           Audio Connections         Image: Content of the part o	USB A	2x 2.0, True Emulation, Full Speed, Low Speed, High
Link Ports   Sp8c (RJ45)   1x		Speed
8p8c (RJ45)1xAudio ConnectionsDigitalChannels2xAudio DirectionBi-directionalAudio Additional InformationHDMI Audio 2 channel linear PCMSize (bit)16Speed (kHz)48Audio In Port1x USBCable RequirementsCAT5e and above100m / 328ftNetwork SupportBandwidth1GbE10/100 SupportNoEnvironmentalOperating Temperature Range °C / °F0 to 40 °C / 32 to 104 °FStorage Temperature °C / °F Range0 to 40 °C / 32 to 104 °FOperating Humidity (%)10% - 90% (non-condensing)Storage Humidity (%)10% - 90% (non-condensing)Altitude m/ft2,000 / 6562Mean Time Between Failure (MTBF)1,200,000 hMTBF StandardTelcordia SR332 Issue 4 March 2016 Calculated @ 55CPower Source	HDMI <sup>®</sup>	1x
Audio Connections  Audio Type Digital  Channels 2x Audio Direction Bi-directional  Audio Additional Information HDMI Audio 2 channel linear PCM Size (bit) 16 Speed (kHz) 48 Audio In Port 1x USB  Cable Requirements CAT5e and above 100m/328ft  Network Support Bandwidth 1GbE 10/100 Support No  Environmental Operating Temperature Range °C/°F Oto 40 °C/32 to 104 °F Storage Temperature °C/°F Range 0 to 40 °C/32 to 104 °F Storage Humidity (%) 10% - 90% (non-condensing) Storage Humidity (%) 10% - 90% (non-condensing) Altitude m/ft Mean Time Between Failure (MTBF) 1,200,000 h  MTBF Standard Telcordia SR332 Issue 4 March 2016 Calculated @ 55C  Power Source	Link Ports	
Audio TypeDigitalChannels2xAudio DirectionBi-directionalAudio Additional InformationHDMI Audio 2 channel linear PCMSize (bit)16Speed (kHz)48Audio In Port1x USBCable RequirementsCAT5e and above100m / 328ftNetwork SupportBandwidth1GbE10/100 SupportNoEnvironmentalOperating Temperature Range °C / °F0 to 40 °C / 32 to 104 °FStorage Temperature °C / °F Range0 to 40 °C / 32 to 104 °FOperating Humidity (%)10% - 90% (non-condensing)Storage Humidity (%)10% - 90% (non-condensing)Altitude m/ft2,000 / 6562Mean Time Between Failure (MTBF)1,200,000 hMTBF StandardTelcordia SR332 Issue 4 March 2016 Calculated @ 55CPower Source	8p8c (RJ45)	1x
Channels 2x  Audio Direction Bi-directional  Audio Additional Information HDMI Audio 2 channel linear PCM  Size (bit) 16  Speed (kHz) 48  Audio In Port 1x USB  Cable Requirements  CAT5e and above 100m / 328ft  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 (%) 10% - 90% (non-condensing)  Storage Humidity (%) 10% - 90% (non-condensing)  Altitude m/ft 2,000 / 6562  Mean Time Between Failure (MTBF) 1,200,000 h  MTBF Standard Telcordia SR332 Issue 4 March 2016 Calculated @ 55C  Power Source	Audio Connections	
Audio Direction  Audio Additional Information  HDMI Audio 2 channel linear PCM  Size (bit)  16  Speed (kHz)  48  Audio In Port  1x USB  Cable Requirements  CAT5e and above  100m / 328ft  Network Support  Bandwidth  1GbE  10/100 Support  No  Environmental  Operating Temperature Range °C / °F  Storage Temperature °C / °F Range  Operating Humidity (%)  10% - 90% (non-condensing)  Storage Humidity (%)  Altitude m/ft  2,000 / 6562  Mean Time Between Failure (MTBF)  MTBF Standard  Fower Source	Audio Type	Digital
Audio Additional Information  Fize (bit)  Speed (kHz)  Audio In Port  Lx USB  Cable Requirements  CAT5e and above  I00m/328ft  Network Support  Bandwidth  IGbE  10/100 Support  No  Environmental  Operating Temperature Range °C/°F  Storage Temperature Range °C/°F  Storage Temperature °C/°F Range  Operating Humidity (%)  Storage Humidity (%)  Altitude m/ft  Audio 2 channel linear PCM  10  6  8  10  10  10  10  10  10  10  10  10	Channels	2x
Size (bit)  Speed (kHz)  Audio In Port  1x USB  Cable Requirements  CAT5e and above  100m / 328ft  Network Support  Bandwidth  1GbE  10/100 Support  No  Environmental  Operating Temperature Range °C / °F Storage Temperature °C / °F Range  Operating Humidity (%)  Storage Humidity (%)  10% - 90% (non-condensing)  Altitude m/ft  2,000 / 6562  Mean Time Between Failure (MTBF)  MTBF Standard  Power Source	Audio Direction	Bi-directional
Speed (kHz) 48 Audio In Port 1x USB  Cable Requirements CAT5e and above 100m / 328ft  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 (%) 10% - 90% (non-condensing) Storage Humidity (%) 10% - 90% (non-condensing) Altitude m/ft 2,000 / 6562  Mean Time Between Failure (MTBF) 1,200,000 h  MTBF Standard Telcordia SR332 Issue 4 March 2016 Calculated @ 55C	Audio Additional Information	HDMI Audio 2 channel linear PCM
Audio In Port  Cable Requirements  CAT5e and above  100m / 328ft  Network Support  Bandwidth  1GbE  10/100 Support  No  Environmental  Operating Temperature Range °C / °F  Storage Temperature °C / °F Range  Operating Humidity (%)  10% - 90% (non-condensing)  Storage Humidity (%)  10% - 90% (non-condensing)  Altitude m/ft  2,000 / 6562  Mean Time Between Failure (MTBF)  MTBF Standard  Telcordia SR332 Issue 4 March 2016 Calculated @ 55C  Power Source	Size (bit)	16
Cable Requirements  CAT5e and above  100m / 328ft  Network Support  Bandwidth 1GbE  10/100 Support No  Environmental Operating Temperature Range °C / °F Storage Temperature °C / °F Range Operating Humidity (%) 10% - 90% (non-condensing) Storage Humidity (%) 10% - 90% (non-condensing)  Altitude m/ft 2,000 / 6562  Mean Time Between Failure (MTBF) MTBF Standard Telcordia SR332 Issue 4 March 2016 Calculated @ 55C  Power Source	Speed (kHz)	48
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 (%) 10% - 90% (non-condensing)  Storage Humidity (%) 10% - 90% (non-condensing)  Altitude m/ft 2,000 / 6562  Mean Time Between Failure (MTBF) 1,200,000 h  MTBF Standard Telcordia SR332 Issue 4 March 2016 Calculated @ 55C  Power Source	Audio In Port	1x USB
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 (%) 10% - 90% (non-condensing)  Storage Humidity (%) 10% - 90% (non-condensing)  Altitude m/ft 2,000 / 6562  Mean Time Between Failure (MTBF) 1,200,000 h  MTBF Standard Telcordia SR332 Issue 4 March 2016 Calculated @ 55C	Cable Requirements	
Bandwidth  1GbE  10/100 Support  No  Environmental  Operating Temperature Range °C / °F Storage Temperature °C / °F Range Operating Humidity (%)  Storage Humidity (%)  Altitude m/ft  Mean Time Between Failure (MTBF)  MTBF Standard  Power Source  1GbE  1GbE  1GbE  1GbE  1GbE  106  104  104  104  104  104  104  104	CAT5e and above	100m / 328ft
In 10/100 Support  Environmental  Operating Temperature Range °C / °F  Storage Temperature °C / °F Range  Oto 40 °C / 32 to 104 °F  Operating Humidity (%)  10% - 90% (non-condensing)  Storage Humidity (%)  10% - 90% (non-condensing)  Altitude m/ft  2,000 / 6562  Mean Time Between Failure (MTBF)  I,200,000 h  MTBF Standard  Telcordia SR332 Issue 4 March 2016 Calculated @ 55C  Power Source	Network Support	
Environmental  Operating Temperature Range °C / °F	Bandwidth	1GbE
Operating Temperature Range °C / °F Storage Temperature °C / °F Range O to 40 °C / 32 to 104 °F Operating Humidity (%) 10% - 90% (non-condensing) Storage Humidity (%) 10% - 90% (non-condensing) Altitude m/ft 2,000 / 6562 Mean Time Between Failure (MTBF) 1,200,000 h MTBF Standard Telcordia SR332 Issue 4 March 2016 Calculated @ 55C  Power Source	10/100 Support	No
Storage Temperature °C / °F Range 0 to 40 °C / 32 to 104 °F  Operating Humidity (%) 10% - 90% (non-condensing)  Storage Humidity (%) 10% - 90% (non-condensing)  Altitude m/ft 2,000 / 6562  Mean Time Between Failure (MTBF) 1,200,000 h  MTBF Standard Telcordia SR332 Issue 4 March 2016 Calculated @ 55C  Power Source	Environmental	
Operating Humidity (%)  Storage Humidity (%)  Altitude m/ft  2,000 / 6562  Mean Time Between Failure (MTBF)  1,200,000 h  MTBF Standard  Telcordia SR332 Issue 4 March 2016 Calculated @ 55C  Power Source	Operating Temperature Range °C / °F	0 to 40 °C / 32 to 104 °F
Storage Humidity (%)  Altitude m/ft  2,000 / 6562  Mean Time Between Failure (MTBF)  1,200,000 h  MTBF Standard  Telcordia SR332 Issue 4 March 2016 Calculated @ 55C  Power Source	Storage Temperature °C / °F Range	0 to 40 °C / 32 to 104 °F
Altitude m/ft  2,000 / 6562  Mean Time Between Failure (MTBF)  1,200,000 h  Telcordia SR332 Issue 4 March 2016 Calculated @ 55C  Power Source	Operating Humidity (%)	10% - 90% (non-condensing)
Mean Time Between Failure (MTBF)  1,200,000 h  Telcordia SR332 Issue 4 March 2016 Calculated @ 55C  Power Source	Storage Humidity (%)	10% - 90% (non-condensing)
MTBF Standard Telcordia SR332 Issue 4 March 2016 Calculated @ 55C  Power Source	Altitude m/ft	2,000 / 6562
55C Power Source	Mean Time Between Failure (MTBF)	1,200,000 h
Power Source	MTBF Standard	Telcordia SR332 Issue 4 March 2016 Calculated @
		55C
USB powered 2x	Power Source	
	USB powered	2x

**5V** 1x **Power Additional Information** USB power: 2x USB2.0 (2x 500mA @5V) 5W• External power: 5VDC, 1A, (LPS) **Power Consumption Maximum Power (Watts)** 5 3 Typical Power (Watts) **Physical Design Construction Material** ABS and aluminium construction U size 0 Width (mm) / (in.) 55 / 2.2 25/1Height (mm) / (in.) Depth (mm) / (in.) 110 / 4.3 Flying Lead Length (mm) 300 Weight (kg) / (lb) 0.2 / 0.4Compatibility **OS Compatibility** All known operating systems **System Requirements** Does not support HDCP or CEC control **Approvals and Standards** CE, FCC, ICES, UKCA **Approvals Standards** ANSI 63.4, EN55032 / CISPR 32, EN55035 / CISPR 35, EN61000-3-2, EN61000-3-3, EN63000, FCC pt15B Other Cal Prop 65, China ROHS, EU REACH, UK REACH **Packing Box** 292 / 11.5 Length (mm) / (in.) Width (mm) / (in.) 245 / 9.6 55 / 2.2 Depth (mm) / (in.) Weight (kg) / (lb) 0.5 / 1.1



What's in the Box?

1x ALIF102T unit

1x Quick start guide

**Ordering Information** 

ALIF102T-HM ALIF102T- HDMI Transmitter

**Related Accessories (Sold Separately)** 

ADDER® Power Supply Unit 5volt DC 2.5A

ADDER® PSU RED PRO 12V to 5V DC converter

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 2025 | Adder Technology Ltd.