

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

ADDERLink® INFINITY 100T VGA (ALIF100T) is a high performance ZeroU™ IP KVM extender with matrix capability that enables the use of standard IT infrastructure to extend computers away from the user environment.

# **ADDERLink® INFINITY 100T VGA**

**Matrix** 

#### **Features**



## ZeroU™ Form Factor

The ALIF100T 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 ALIF100T 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 Powered**

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 also available.



### **USB 2.0 with Class Control**

Supports USB devices including graphics tablets, jog shuttles, joysticks and 3D explorers. 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 different types of device.



#### **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.



## **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





### **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 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.



## **USB Audio**

The system delivers USB stereo audio (line in, line out) digitally across the network.



## **Low Power Consumption**

At under three watts of power in typical usage, the ALIF100T radically reduces the requirements for power supply capacity and air-conditioning in most installations.

Maximum Resolution (1 Screen)         1920 x 1200           Frame Rate (1 Screen)         60           Color Depth (1 Screen)         8 bpc           Computer Connections           USB A         2x 1.1, True Emulation, Full Speed, Low Speed           VGA         1x           Link Ports         8B8c (RJ4S)           Audio Connections         1x           Audio Type         Digital           Channels         2x           Audio Direction         8F-directional           Size (bit)         16           Speed (kHz)         48           Audio In Port         1x USB           Cable Requirements           CAT5e and above         100m / 328ft           CAT6 (SFTP)         100m / 328ft           CAT6 (SFTP)         100m / 328ft           CAT6 (SFTP)         100m / 328ft           CAT7         100m / 328ft           CAT6 (SPTP)         No           Peturion Mental         100m / 328ft           CAT7         100m / 328ft           CAT6 (SFTP)         0 to 50 °C / 32 to 122 °F           Storage Temperature Range °C / °F         0 to 50 °C / 32 to 122 °F           Storage Temperature Range °C / °F Range         -10 to 60 °C / 14	Video Information (1 Screen)	
Color Depth (1 Screen) 8 bpc  Computer Connections  USB A 2x 1.1, True Emulation, Full Speed, Low Speed  VGA 1x  Link Ports 8pBc (RU45) 1x  Audio Connections  Audio Type Digital  Channels 2x  Audio Direction Bi-directional  Size (bit) 16  Speed (kHz) 48  Audio In Port 1x USB  Cable Requirements  CAT5e 100m / 328ft  CAT5e 100m / 328ft  CAT6 (SFTP) 100m / 328ft  CAT6 (AT7 100m / 328ft  CAT7 100m / 328ft  Second Support  Bandwidth 1GbE  10/100 Support No  Environmental  Operating Temperature Range °C / °F  Storage Temperature *C / °F Range -10 to 60 °C / 14 to 140 °F  Operating Humidity (%) 10% - 90% (non-condensing)  Storage Humidity (%) 10% - 90% (non-condensing)  Altitude m/ft 2,000 / 6562  Mean Time Between Failure (MTBF) 2,000,000 h  MTBF Standard Telcordia SR332 Issue 4 March 2016 Calculated @	Maximum Resolution (1 Screen)	1920 x 1200
Computer Connections  USB A 2x 1.1, True Emulation, Full Speed, Low Speed  VGA 1x  Link Ports  8p8c (RJ45) 1x  Audio Connections  Audio Type Digital  Channels 2x  Audio Direction Bi-directional  Size (bit) 16  Speed (kHz) 48  Audio In Port 1x USB  Cable Requirements  CATSe 100m / 328ft  CATSe 100m / 328ft  CAT6 (SFTP) 100m / 328ft  CAT6 (SFTP) 100m / 328ft  CAT7 100m / 328ft  CAT6 (SFTP) 100m / 328ft  CAT6 (S	Frame Rate (1 Screen)	60
USB A         2x 1.1, True Emulation, Full Speed, Low Speed           VGA         1x           Link Ports         SpBc (RJ45)           8pBc (RJ45)         1x           Audio Connections         Audio Type         Digital           Channels         2x           Audio Direction         Bi-directional           Size (bit)         16           Speed (kHz)         48           Audio In Port         1x USB           Cable Requirements         CAT5e           CAT5e and above         100m / 328ft           CAT6 (SFTP)         100m / 328ft           CAT6 (SFTP)         100m / 328ft           CAT7         100m / 328ft           CAT7         100m / 328ft           CAT7         100m / 328ft           CAT7         No           Bandwidth         1GbE           10/100 Support         No           Environmental         Operating Temperature Range °C / °F         0 to 50 °C / 32 to 122 °F           Storage Temperature *C / °F Range         -10 to 60 °C / 14 to 140 °F           Operating Humidity (%)         10% - 90% (non-condensing)           Storage Humidity (%)         10% - 90% (non-condensing)           Altitude m/ft         2,000,000 h </th <th>Color Depth (1 Screen)</th> <th>8 bpc</th>	Color Depth (1 Screen)	8 bpc
VGA         1x           Link Ports         PBSC (RJ45)         1x           Audio Connections         Digital           Channels         2x           Audio Direction         Bi-directional           Size (bit)         16           Speed (kHz)         48           Audio In Port         1x USB           Cable Requirements         CAT5e           CAT5e and above         100m / 328ft           CAT6 (SFTP)         100m / 328ft           CAT6a         100m / 328ft           CAT7         100m / 328ft           CAT7         100m / 328ft           Network Support         Bandwidth         1GbE           10/100 Support         No           Environmental         Operating Temperature Range °C / °F         0 to 50 °C / 32 to 122 °F           Storage Temperature Range °C / °F Range         -10 to 60 °C / 14 to 140 °F           Operating Humidity (%)         10% - 90% (non-condensing)           Storage Humidity (%)         10% - 90% (non-condensing)           Altitude m/ft         2,000,000 h           MTBF Standard         Telcordia SR332 Issue 4 March 2016 Calculated @	Computer Connections	
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8p8c (RJ45)         1x           Audio Connections         Audio Type         Digital           Channels         2x           Audio Direction         Bi-directional           Size (bit)         16           Speed (kHz)         48           Audio In Port         1x USB           Cable Requirements         CAT5e           CAT5e and above         100m / 328ft           CAT6 (SFTP)         100m / 328ft           CAT6 (AT7         100m / 328ft           CAT7         100m / 328ft           CAT7         100m / 328ft           CAT7         No           Environmental           Operating Temperature Range °C / °F         0 to 50 °C / 32 to 122 °F           Storage Temperature °C / °F Range         -10 to 60 °C / 14 to 140 °F           Operating Humidity (%)         10% - 90% (non-condensing)           Storage Humidity (%)         10% - 90% (non-condensing)           Altitude m/ft         2,000 / 6562           Mean Time Between Failure (MTBF)         2,000 ,000 h           MTBF Standard         Telcordia SR332 Issue 4 March 2016 Calculated @	VGA	1x
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Channels         2x           Audio Direction         Bi-directional           Size (bit)         16           Speed (kHz)         48           Audio In Port         1x USB           Cable Requirements           CAT5e and above         100m / 328ft           CAT5e         100m / 328ft           CAT6 (SFTP)         100m / 328ft           CAT6a         100m / 328ft           CAT7         100m / 328ft           Network Support           Bandwidth         1GbE           10/100 Support         No           Environmental         Operating Temperature Range °C / °F         0 to 50 °C / 32 to 122 °F           Storage Temperature Range °C / °F ange         -10 to 60 °C / 14 to 140 °F           Operating Humidity (%)         10% - 90% (non-condensing)           Storage Humidity (%)         10% - 90% (non-condensing)           Altitude m/ft         2,000 / 6562           Mean Time Between Failure (MTBF)         2,000,000 h           MTBF Standard         Telcordia SR332 Issue 4 March 2016 Calculated @	Audio Connections	
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Size (bit)       16         Speed (kHz)       48         Audio In Port       1x USB         Cable Requirements       CAT5e and above         CAT5e       100m / 328ft         CAT6 (SFTP)       100m / 328ft         CAT6a       100m / 328ft         CAT7       100m / 328ft         Network Support       Bandwidth       1GbE         10/100 Support       No         Environmental       Operating Temperature Range °C / °F       0 to 50 °C / 32 to 122 °F         Storage Temperature *C / °F Range       -10 to 60 °C / 14 to 140 °F         Operating Humidity (%)       10% - 90% (non-condensing)         Storage Humidity (%)       10% - 90% (non-condensing)         Altitude m/ft       2,000 / 6562         Mean Time Between Failure (MTBF)       2,000,000 h         MTBF Standard       Telcordia SR332 Issue 4 March 2016 Calculated @	Channels	2x
Speed (kHz)       48         Audio In Port       1x USB         Cable Requirements       CAT5e and above       100m / 328ft         CAT5e       100m / 328ft         CAT6a       100m / 328ft         CAT7       100m / 328ft         Network Support       Bandwidth       1GbE         10/100 Support       No         Environmental       Operating Temperature Range °C / °F       0 to 50 °C / 32 to 122 °F         Storage Temperature °C / °F Range       -10 to 60 °C / 14 to 140 °F         Operating Humidity (%)       10% - 90% (non-condensing)         Storage Humidity (%)       10% - 90% (non-condensing)         Altitude m/ft       2,000 / 6562         Mean Time Between Failure (MTBF)       2,000,000 h         MTBF Standard       Telcordia SR332 Issue 4 March 2016 Calculated @	Audio Direction	Bi-directional
Audio In Port       1x USB         Cable Requirements       100m / 328ft         CAT5e and above       100m / 328ft         CAT5e       100m / 328ft         CAT6 (SFTP)       100m / 328ft         CAT6a       100m / 328ft         Network Support         Bandwidth       1GbE         10/100 Support       No         Environmental       Operating Temperature Range °C / °F       0 to 50 °C / 32 to 122 °F         Storage Temperature °C / °F Range       -10 to 60 °C / 14 to 140 °F         Operating Humidity (%)       10% - 90% (non-condensing)         Storage Humidity (%)       10% - 90% (non-condensing)         Altitude m/ft       2,000 / 6562         Mean Time Between Failure (MTBF)       2,000,000 h         MTBF Standard       Telcordia SR332 Issue 4 March 2016 Calculated @	Size (bit)	16
Cable Requirements         CAT5e and above       100m / 328ft         CAT5e       100m / 328ft         CAT6 (SFTP)       100m / 328ft         CAT6a       100m / 328ft         CAT7       100m / 328ft         Network Support         Bandwidth       1GbE         10/100 Support       No         Environmental         Operating Temperature Range °C / °F       0 to 50 °C / 32 to 122 °F         Storage Temperature °C / °F Range       -10 to 60 °C / 14 to 140 °F         Operating Humidity (%)       10% - 90% (non-condensing)         Storage Humidity (%)       10% - 90% (non-condensing)         Altitude m/ft       2,000 / 6562         Mean Time Between Failure (MTBF)       2,000,000 h         MTBF Standard       Telcordia SR332 Issue 4 March 2016 Calculated @	Speed (kHz)	48
CAT5e and above       100m / 328ft         CAT5e       100m / 328ft         CAT6 (SFTP)       100m / 328ft         CAT6a       100m / 328ft         CAT7       100m / 328ft         Network Support         Bandwidth       1GbE         10/100 Support       No         Environmental         Operating Temperature Range °C / °F       0 to 50 °C / 32 to 122 °F         Storage Temperature °C / °F Range       -10 to 60 °C / 14 to 140 °F         Operating Humidity (%)       10% - 90% (non-condensing)         Storage Humidity (%)       10% - 90% (non-condensing)         Altitude m/ft       2,000 / 6562         Mean Time Between Failure (MTBF)       2,000,000 h         MTBF Standard       Telcordia SR332 Issue 4 March 2016 Calculated @	Audio In Port	1x USB
CAT5e       100m / 328ft         CAT6 (SFTP)       100m / 328ft         CAT6a       100m / 328ft         CAT7       100m / 328ft         Network Support         Bandwidth         1GbE         10/100 Support       No         Environmental         Operating Temperature Range °C / °F       0 to 50 °C / 32 to 122 °F         Storage Temperature °C / °F Range       -10 to 60 °C / 14 to 140 °F         Operating Humidity (%)       10% - 90% (non-condensing)         Storage Humidity (%)       10% - 90% (non-condensing)         Altitude m/ft       2,000 / 6562         Mean Time Between Failure (MTBF)       2,000,000 h         MTBF Standard       Telcordia SR332 Issue 4 March 2016 Calculated @	Cable Requirements	
CAT6 (SFTP)       100m / 328ft         CAT6a       100m / 328ft         CAT7       100m / 328ft         Network Support         Bandwidth         10/100 Support       No         Environmental         Operating Temperature Range °C / °F       0 to 50 °C / 32 to 122 °F         Storage Temperature °C / °F Range       -10 to 60 °C / 14 to 140 °F         Operating Humidity (%)       10% - 90% (non-condensing)         Storage Humidity (%)       10% - 90% (non-condensing)         Altitude m/ft       2,000 / 6562         Mean Time Between Failure (MTBF)       2,000,000 h         MTBF Standard       Telcordia SR332 Issue 4 March 2016 Calculated @	CAT5e and above	100m / 328ft
CAT6a 100m / 328ft  CAT7 100m / 328ft  Network Support  Bandwidth 1GbE  10/100 Support No  Environmental  Operating Temperature Range °C / °F 0 to 50 °C / 32 to 122 °F  Storage Temperature °C / °F Range -10 to 60 °C / 14 to 140 °F  Operating Humidity (%) 10% - 90% (non-condensing)  Storage Humidity (%) 10% - 90% (non-condensing)  Altitude m/ft 2,000 / 6562  Mean Time Between Failure (MTBF) 2,000,000 h  MTBF Standard Telcordia SR332 Issue 4 March 2016 Calculated @	CAT5e	100m / 328ft
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Invironmental  Operating Temperature Range °C / °F  Storage Temperature °C / °F Range  Operating Humidity (%)  Storage Humidity (%)  Altitude m/ft  Dean Time Between Failure (MTBF)  No  No  No  No  No  No  No  No  No  N	Network Support	
Environmental  Operating Temperature Range °C / °F  Storage Temperature °C / °F Range  -10 to 60 °C / 14 to 140 °F  Operating Humidity (%)  10% - 90% (non-condensing)  Storage Humidity (%)  10% - 90% (non-condensing)  Altitude m/ft  2,000 / 6562  Mean Time Between Failure (MTBF)  2,000,000 h  MTBF Standard  Telcordia SR332 Issue 4 March 2016 Calculated @	Bandwidth	1GbE
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Operating Humidity (%)  Storage Humidity (%)  Altitude m/ft  2,000 / 6562  Mean Time Between Failure (MTBF)  MTBF Standard  10% - 90% (non-condensing)  2,000 / 6562  Telcordia SR332 Issue 4 March 2016 Calculated @	Operating Temperature Range °C / °F	0 to 50 °C / 32 to 122 °F
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Mean Time Between Failure (MTBF)2,000,000 hMTBF StandardTelcordia SR332 Issue 4 March 2016 Calculated @	Storage Humidity (%)	10% - 90% (non-condensing)
MTBF Standard Telcordia SR332 Issue 4 March 2016 Calculated @	Altitude m/ft	2,000 / 6562
	Mean Time Between Failure (MTBF)	2,000,000 h
55C	MTBF Standard	Telcordia SR332 Issue 4 March 2016 Calculated @
		55C

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
Typical Power (Watts)	3
Physical Design	
Construction Material	ABS and aluminium construction
U size	0
Width (mm) / (in.)	55 / 2.2
Height (mm) / (in.)	25 / 1
Depth (mm) / (in.)	110 / 4.3
Flying Lead Length (mm)	300
Weight (kg) / (lb)	0.2 / 0.4
Compatibility	
OS Compatibility	All known operating systems
Approvals and Standards	
Approvals	CE, cULus - E476334, FCC, ICES, UKCA
Standards	ANSI 63.4, EN/IEC 62368-1, EN55032 /CISPR 32,
	EN55035/CISPR 35, EN63000, FCC pt15B, ICES003
Other	Cal Prop 65, China ROHS, EU REACH, UK REACH
Packing Box	
Length (mm) / (in.)	292 / 11.5
Width (mm) / (in.)	245 / 9.6
Depth (mm) / (in.)	55 / 2.2
Weight (kg) / (lb)	0.5 / 1.1



What's in the Box?

1x ALIF100T unit

1x Quick start guide

**Ordering Information** 

ALIF100T-VGA ALIF100T- VGA Transmitter

Related Accessories (Sold Separately)

ADDER® Power Supply Unit 5volt DC 2.5A

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

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