

AdderLink

AdderLink INFINITY: Pure digital media extension over IP. Featuring Full DVI, Digital Audio, USBTrue Emulation, Network Multicast, Device Switching and EPG style user interface.

Digital *fluidity*

Digital *fluidity*

Share control, **take** control, and **collaborate** with colleagues live

Digital Network Media Extension Solution

We have always been well known for our extensive range of KVM and KVMA extenders. The AdderLink INFINITY now demonstrates our leading IP capability by delivering fluid interaction with computers as far away as your network can extend.

AdderLink INFINITY allows you to build a flexible infrastructure, the likes of which have not been possible before. Locate computers anywhere you like, share connections to computers, watch the interactions others have with computers, share control, collaborate, switch computers and so on. The AdderLink INFINITY is also the first device of its kind to allow multicasting across your network.

Adder's expertise in IP based KVM solutions also means that you get the very best video quality and fluid USB based interactions with your computer. Adder's own USB True Emulation technology has also been built into the AdderLink INFINITY, allowing you to connect all HID (Human Interface Devices) as well as storage devices and many other USB device types too.

Optimized for both HID and Mass Storage devices, the AdderLink INFINITY uses USB 2.0 technology to deliver reliable and flexible device support.

The AdderLink INFINITY is available now from Adder and Adder approved channel partners.

Flexible Usage Architecture

The AdderLink INFINITY can be configured to deliver the ultimate in system flexibility.

In the diagram opposite, we can see the use of two remote computers resulting in several very distinct usage scenarios: same time, this user is listening to audio from Computer 1.

A/V Only: This user position is configured to display video and play audio only. A/V selection may be from different sources.

Share Mode: In share mode, two or more users have simultaneous access to a shared computer enabling collaboration or advanced control applications.

Any to Any: In Any to Any mode, connections are fully independent enabling one user to access the first computer while another user accesses another computer etc. This mode supports large scalable matrix switching scenarios.

AdderLink INFINITY Management System (A.I.M.)

By making use of the AdderLink INFINITY Management System, you can administrate the entire network and apply a flexible selection of connectivity rules. For example, you may wish to allow only certain users to access video from a remote computer, apply sharing hierarchy to users, or make all users view a predefined channel mixture.

The AdderLink INFINITY Management system allows you to combine elements from remote computers and save those combinations as 'channels'. Your users can then pull up the advanced EPG (Electronic Program Guide) on their receiver and change channel, in much the same way as you would a digital TV. If two receivers wish to collaborate on a machine, or get technical support, they can both share keyboard and mouse control at the same time.

Screen grouping allows you to switch multiple video feeds together while using a single keyboard and mouse, ideal for use on multi- head computers.

The AdderLink INFINITY Management System is simplicity itself to use, and because it sits on your network, you can access it from anywhere you like, day or night. You can even access usage logs which tell you which receivers have been connected to which transmitters over time, what collaboration has occurred and who is connected at any point in time.

Multicasting: The video output from any transmitter can be multicast to many receivers. The video data only exists once on the network, and each connected user (receiver) can view the output simultaneously.

Full Control: This user has full control of computer 1. They are viewing the video output, listening to the audio, using a local USB peripheral and they have full keyboard and mouse control.

Mixed Receiver: Here a user is viewing the output video from computer 2 with full keyboard, mouse and local USB device control at the user's desk. At the





Relocate, secure and take **environmental control** of your hardware

Perfect Digital Video:

The AdderLink INFINITY makes use of multiple video encode technologies devised by Adder to deliver the very best picture available. Our encoding systems are spatially lossless, with 1:1 pixel mapping, so the digital video you receive is the same as the digital video leaving the remote computer.

Intelligent Video Encoding:

The AdderLink INFINITY uses optimal spatially lossless compression techniques to minimize network bandwidth usage and maximize the user experience. In most usage scenarios, with typical computer desktop applications, the AdderLink INFINITY uses remarkably little bandwidth. When it needs to deliver full screen motion video, it has the capability to process full screen moving video in real time.

Video Color Accuracy:

The received video color is the same as the sent color every time. There is never a loss of clarity with the AdderLink INFINITY. Because of this, color controlled environments such as visual media or scientific imaging can collaborate in real time on projects, handing control across seamlessly to other group members.



USB True Emulation:

The AdderLink INFINITY enables you to Connect any USB human interface device from mice and keyboards through to graphics tablets, jog shuttles, joysticks and 3D explorers. Furthermore, most other USB devices can also be attached, such as Mass Storage devices. Most USB devices fall into a selection of USB device classes, specific types of USB device class can be enabled or disabled from your AdderLink INFINITY network. In secure environments for example, you may wish to ban the use of Mass Storage devices, this is a simple procedure through the A.I.M. System.

Network Topology:

You can configure your network topology to best suit your needs. If you simply want to extend one computer Tx to one user Rx, you can do so by connecting both Tx and Rx units via a low cost CATx cable. Distance is not limited - a standard network cable will deliver IP traffic up to 100 meters / 330 feet away. If you want to go further, simply add a network switch in to achieve an additional 100 meters / 330 feet. This can be done many times if you wish.

The AdderLink INFINITY network is assumed to be a private network which you manage. As such, you can control maximum data rates generated by each Tx unit to ensure absolute stability.

Wireless Connectivity:

Because of the efficient manner in which AdderLink INFINITY constructs data for IP transmission, it is perfectly reasonable to make use of standard off the shelf wireless routing to connect either Rx or Tx units to your network. Typical desktop applications (word processing, spreadsheet, etc.) will use very little bandwidth.

Mounting Options:

The AdderLink INFINITY units can be rack mounted, desktop mounted, wall mounted or attached to the back of your monitor using an optional VESA mounting carriage.

DVI - Digital Visual Interface:

The AdderLink INFINITY features full DVI connectivity. DVI delivers native digital video signals from your computer to your digital panel (LCD for example) without the need to convert signal types from the digital domain. By delivering native digital video throughout the AdderLink INFINITY network, you can be assured of accuracy on each and every pixel.

USB 2.0:

The AdderLink INFINITY uses USB 2.0 connectivity to interface with your keyboard and mouse, and any other peripheral you wish to use. USB is the most broadly used computer peripheral interface standard available.

Digital Stereo Audio:

AdderLink INFINITY delivers crystal clear stereo audio digitally across the network. This ensures continuous fidelity and channel separation between the Tx and Rx units, or even in Multicast environments.

RS232 Interface:

The AdderLink INFINITY includes a bidirectional RS232 interface which can be used to connect devices such as touch screens, simple printers or to control external equipment, and feedback remote data sources.

Command and Control



Medical Imaging, Collaboration and Consultation

Media Production, Post, Design and Architecture



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Research and Control

A number of computers are connected to separate viewing and controlling devices such as cameras or microscopes. The data captured by the local computers is then multicast by the AdderLink INFINITY Tx units across the network to AdderLink INFINITY Rx stations placed behind LCD display walls and also to user stations in the control room.

Users can interact with any of the computers using separate keyboards, mice and DVI displays situated at

disparate points in the control room. AdderLink Infinity enables a totally flexible system to be introduced with no limitations on distance or video quality. Control can be exclusive or shared, private or multicast.

Traffic Control

Computers monitoring the movement of traffic provide controllers the essential information to maintain smooth movement. Computers providing this information are securely housed drawing their information from a variety of resources. Viewing and control stations are housed in the traffic control centers often located elsewhere. AdderLink Infinity Tx units attached to the computers transmit the information simply point to point to multi point across the network. Traffic controllers can then view and interact with the computers and their resources while the image remains displayed across large video arrays.

Medical

Medical centers and hospitals utilizing the latest technology require quick distribution of high quality images to staff located across large facilities. Doctors and staff located at any AdderLink Infinity user station can view images and interact with the computers as required. Shared access and limitless multicast enables essential medical data to be distributed to exactly the right place in an instant.

One of the key advantages of

AdderLink INFINITY is that is utilizes standard Ethernet networking equipment that may already be approved and installed for applications that require galvanic isolation.

Post Production

A post production facility has a machine room and a number of editing suites where editors, colorists and animators can edit and create digital content.

Machine rooms can be used to store all the media assets and hardware used throughout the facility, and using AdderLink INFINITY, distributed throughout the facility. Editors can collaborate instantly with animators and colorists located anywhere on the network in real time. Producers and Directors can monitor the progress directly, and discuss direction with the edit team throughout the project.

AdderLink INFINITY also gives you the ability to hot swap suites, taking the channel selection you require with you at all times. Expensive hardware can also be shared between all the suites negating the need for duplicate investment.

The fanless design of AdderLink INFINITY means facility designers no longer need to audio isolate machinery, which in turn opens up a broader hardware selection.

Facility engineers can also take control of any piece of equipment they need to, in order to diagnose and fix problems. This can be done from a single location, allowing the engineer to cover more hardware in a shorter time.

Because you can connect to anything from anywhere, AdderLink INFINITY opens up new possibilities, such as making changes on the fly from a screening room, while discussing a project with your client to ensure both parties are reading from the same page.

Design

In design environments, art directors can interface directly with designers, take control remotely, or discuss concepts with clients which may be in production, or complete.

Similarly, in Architecture, multiple specialists can collaborate directly on the same project.

Trading

A bank trader typically has 4 screens on his desk, along with a single keyboard and mouse used to interact with the systems. Normally the trader interacts with the systems using a specialist keyboard.

Sometimes additional screens are

displaying information that the trader uses but does not always interact with. Often other users will also be viewing these information feeds at the same time. When the trader is required to interact with any of the other computers, he uses a Hotkey on the trader keyboard, selects another computer while not interrupting the feeds on any of the others.

AdderLink INFINITY Tx boxes are connected to the trading computers. AdderLink INFINITY Rx units are connected to each of the monitors. The trading keyboard and mouse connects to one of the Rx units.







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