

# KVM

## SOLUTIONS FOR

### Control Room

ERGONOMICS • SECURITY • FLEXIBILITY • REMOTE ACCESS



**Award Winning**  
ADDERLink INFINITY  
Queen's Award for Enterprise:  
Innovation 2014

Welcome to the world of High Performance **KVM**



[adder.com](http://adder.com)



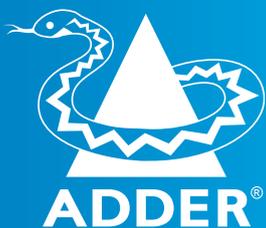
Complete **control** and flexibility  
from **anywhere** at **anytime**



ADDER CCS-PRO

A KVM switch that enables the user to control up to 8 computers with one keyboard and mouse whilst maintaining simultaneous access to all video, USB and audio sources. Provides the experience of a single ergonomic desktop, saving both time and space.

Ergonomic • Seamless • Instant



The **IP KVM** People

# Welcome to the world of **High Performance KVM**

## THE STANDARD IN CONTROL ROOM CONNECTIVITY

The control room is a **mission critical environment** where a physical location or distributed service is monitored and controlled by trained operators. Often operating 24 hours a day, the control room relies upon millions of data points to provide operators with the situational awareness required to make important decisions. It is therefore critical that data is presented accurately and in real-time.

The modern control room requires its operators, supervisors and managers to collaborate effectively. While video walls display masses of data in a format that is visible for all to see, operators continue to rely heavily on their desktop displays in order to understand and interact with their control and management systems.

At Adder we believe in providing the operator with clean and simple work-spaces that give them flexibility in a reliable and resilient manner. To deliver on this promise, we have developed a range of **KVM solutions** that deliver incredible image quality and intuitive interactions in hardware designed to operate 24/7, 365 days of the year.

Our customers have used our **High Performance KVM** solutions to:

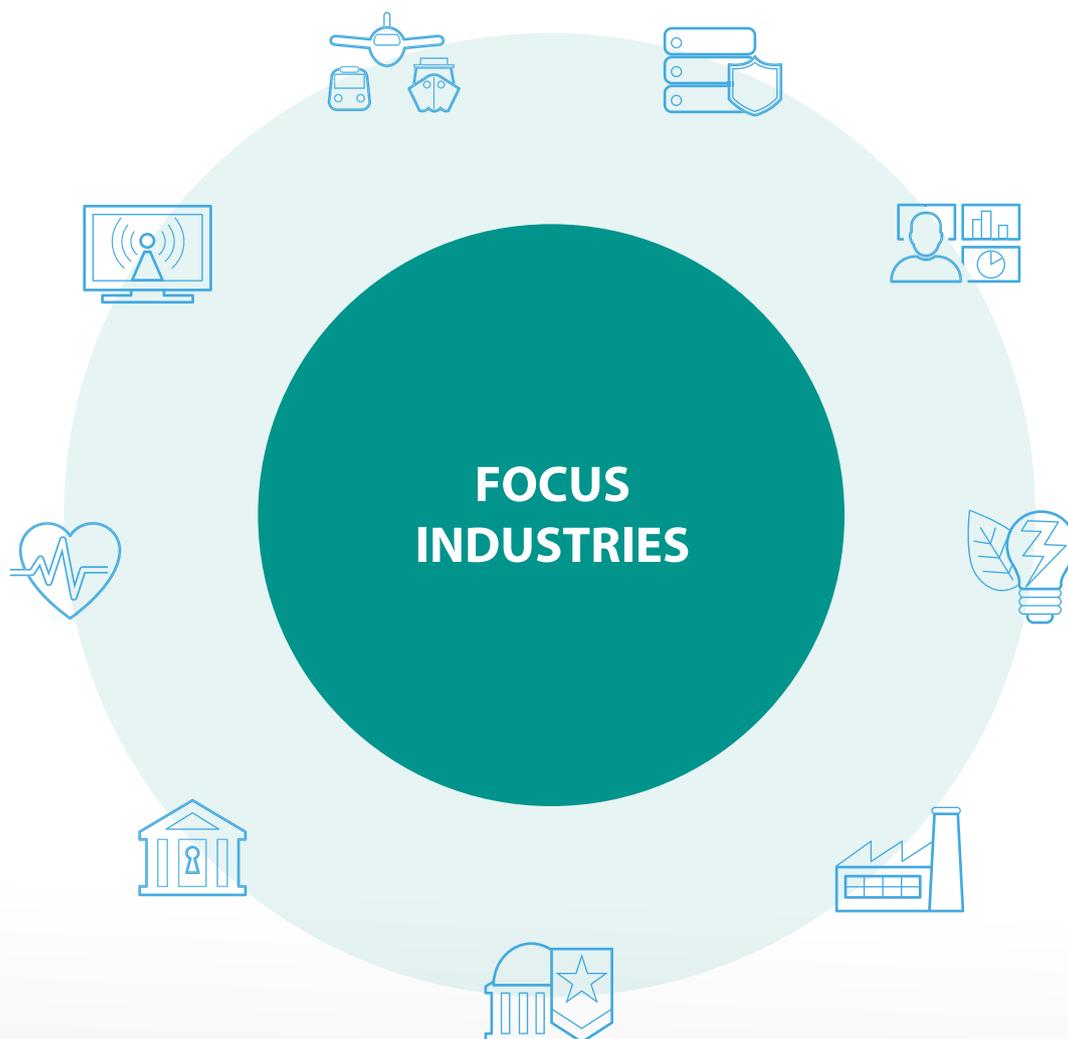
- **Create an ergonomic workspace** in order to increase operator efficiency and productivity
- **Meet operational requirements** by making visual data accessible to the right people, at the right time, regardless of their location
- **Increase IT security** by allowing physical computers to be relocated elsewhere such as an access controlled server room
- **Increase flexibility** within the control room and enable control room managers and supervisors to streamline their operation

The next generation control room will continue to get smarter with more and more data being captured, monitored and analyzed. **Our goal at Adder** is to ensure that the operator can continue to perform optimally, by giving them **full control over data**, and increase the speed at which they can **switch** between tasks.



**“USER CENTERED  
DESIGN IS CRITICAL  
FOR CONTROL ROOM  
SUCCESS”**

The standard in **Control Room Connectivity**

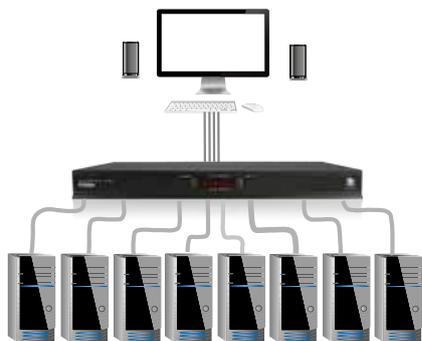


OUR  
CUSTOMERS



## KVM SWITCH

The operator can adapt their workspace and control multiple computers with a single screen, keyboard and mouse.



- Increase efficiency and ergonomics within the control room
- Access to multiple applications from a single keyboard and mouse
- Instantly switch between main and backup systems with programmable hotkey combinations

## KVM EXTENDER

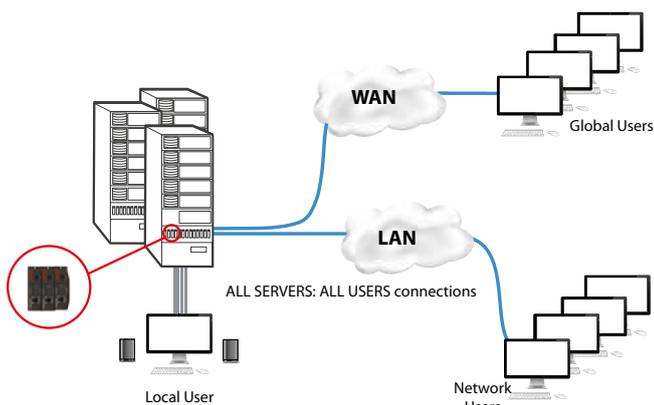
The computers can be located hundreds of meters away from the workplace which saves space, increases security, and reduces heat and noise.



- Secure computing resources within a controlled environment
- Keep operators away from dangerous environments: chemicals; machinery; excessive noise; dust or heat
- Make computers accessible from other locations in a facility

## REMOTE KVM

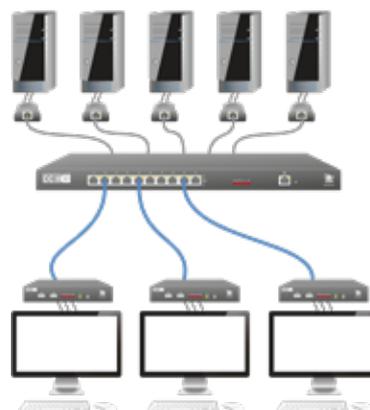
Control a computer which is located in another building, city or country. Ideal for integration with crisis rooms and back up control rooms.



- Manage systems remotely in real-time with zero loss of data
- Eliminates travel time to diagnose issues through remote access to computing resources
- Remote control of computers in dangerous or clean environments

## KVM MATRIX

Combines switching and extension in one managed platform. Increases the flexibility of the whole control room, and enables integration with other technology.



- Give operators access to the right applications from anywhere, at anytime
- Secure computing resources within a controlled environment
- Increase efficiency and ergonomics within the control room



*"Not only do the solutions meet our requirements and those of our clients, but the support we received from the Adder team was excellent."*

### Lisbon Airport: Mission critical ground control

Lisbon Portela Airport or Aeroporto de Lisboa is the world's main gateway into Portugal. Established in 1942 as a neutral airport, it featured in the classic film, Casablanca. Owned by the Vinci Group it handled more than 18 million passengers in 2014 and was nominated Europe's leading airport for five consecutive years.

#### CHALLENGE

As a result of ongoing expansion, with the ultimate goal to transform Lisbon Portela into a four runway airport capable of hosting over 40 million people a year, a new airport control center was built. The center houses a number of servers

and computers that control most of the airport facilities, such as tracking lights, maintaining the gates, plane parking and elevators.

The previous control center housed all of its computers and equipment in the same room. In addition, each machine had its own keyboard and mouse, which presented ergonomic and efficiency challenges to the team as well as restrictions in operations. As a result, one of the main requirements of the new control center was for individual staff members to control this equipment remotely, using only one keyboard and mouse with a choice in the number of monitors.

GTC, a global provider in integrating AV solutions, selected the manufacturer Adder Technology, the high performance IP-based KVM specialist to supply the required technology. Adder Technology worked with GTC to specify the most appropriate solution.

#### SOLUTION

GTC selected the ADDERLink Infinity Manager (A.I.M.) server and ADDERLink Infinity Dual which provides a digital matrix solution using standard IP infrastructure. Transforming the network into an efficient and high-performing digital matrix capable of switching and routing any user station to any computer without compromise to video quality or control.

The physical computers and machines are now located outside of the control room, freeing up space, reducing noise and heat, and making operations more efficient. Adder Technology supplied a number of Adder Command & Control switches featuring Free-flow Technology. The Command & Control switch enables users to interact with up to four computers and screens using a single keyboard and mouse. By simply moving the mouse cursor across screen borders, users can access the computer they need.

Other products supplied include ADDERLink Infinity dual and single head

digital video transmitters and receivers that allow easy switching, collaboration and shared control, as well as the CCS-XB LED Light Module, and ADDER Remote Control Unit RC4- 8P8C that provides direct push button access to any channel from a desktop.

## RESULT

“The customer was very pleased with the results regarding work flow, ergonomics and reliability. The newly equipped room also became a showroom for all the other departments of ANA Aeroportos,” explained Marco Azevedo, Technology and Operations, GTC. “Not only do the solutions meet our requirements and those of our clients, but the support we received from the Adder team was excellent.”

Installation was completed in August 2015 with the new control room now featuring ergonomic workspaces with staff being able to efficiently control a number of different machines and systems from a single workstation with a single keyboard and mouse. The computers have been centrally located away from the operators improving environmental conditions and security.

“GTC managed this installation with a project based approach in order to guarantee the required quality levels and supporting documentation as well as the timelines and stakeholder expectations.

In the end the customer was very happy with Adder and GTC and is considering the use of Adder’s high performance KVM products in other projects,” concluded Marco Azevedo.

## KEY EQUIPMENT USED:

### ADDERLink Infinity

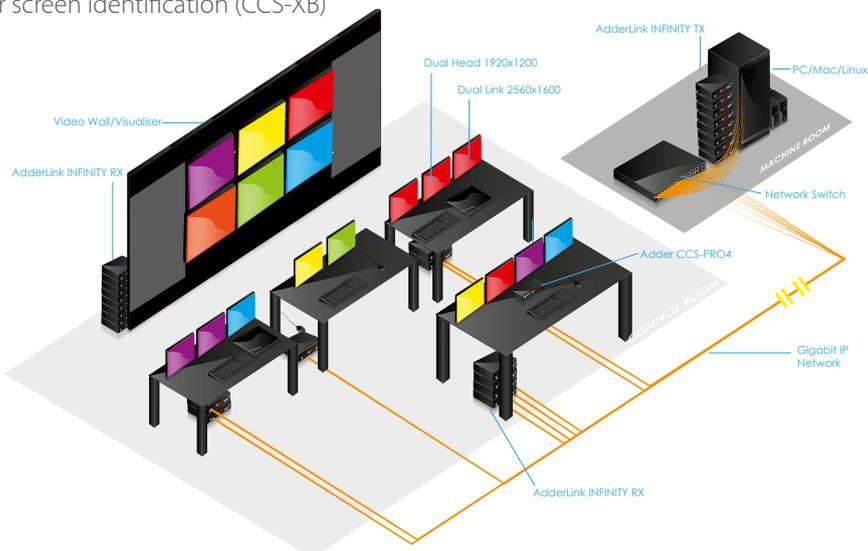
- View a 2560x1600 or two 1920x1200 resolution sessions
- View, access and switch your computing resources remotely
- USB True Emulation - supporting almost any HID device including graphics tablets, 3D explorers, custom keyboards and mice, etc
- Switch to any connected computer



- via an intuitive on screen menu
- Digital stereo audio, 2 way communication
- Fanless

### CCS-PRO4 - Command & Control Switch

- Seamless switching between computers with Free-Flow technology
- Multiple computers, multiple monitors, single keyboard and mouse
- No software required for single screen computers
- Improved desk ergonomics
- Improved user environment
- Optional interactive light modules for screen identification (CCS-XB)





### China State Grid: Keeping energy flowing

The State Grid Corporation of China is the largest utility company in the world. The core of its business revolves around constructing and operating power grids.

#### CHALLENGE

Modern control rooms need to separate working space from machinery space. This often involves locating computing power into machine rooms or even separate buildings. There are a number of reasons why this is the case:

- Minimize noise and heat
- Enable maintenance and pre-emptive repairs to take place while a control room remains operational
- Extend hardware life cycle and

reliability by maintaining ideal environmental conditions

- Allow resources to be re-routed for emergency and disaster recovery

While creating a distraction free working environment, the control room must maintain absolute reliability alongside transparent connectivity. The user must always believe they interact directly with the computer systems in use while only being able to access systems they are authorized to.

#### SOLUTION

China State Grid chose ADDERLink Infinity as a best of breed command and control solution, delivering lossless real time interaction with the flexibility of an instantly configurable IP matrix. Driving 1920x1200 digital video and audio alongside USB from the machine room through to the control room, the ADDERLink Infinity is both rapid to deploy and solid in performance. Key to the success of this installation was the ADDERLink Infinity management system (A.I.M.).

A.I.M. allows an entire installation to be

re-purposed at the touch of a button, while users have the freedom to connect disparate systems using an on screen display, as simple in operation as changing channels on a television. This simplicity is key to user adoption and understanding, allowing operators to get on with their real task rather than being distracted by the technology in front of them.

This installation used another key feature of the ADDERLink Infinity – Multicast. Multicasting allows the operator to view a system on the screen directly in front of them, while a second receiver unit delivers the same content to the video wall processor. Today, this can even be done using VNC through the ALIF2112T transmitter which not only distributes spatially lossless DVI, but at the same time becomes a VNC server, allowing control room content to be decoded by the video wall itself, or even sent around the world to other control rooms or individual users.

#### RESULT

The result of deploying ADDERLink Infinity into China State Grid is a flexible,

robust control environment with endless configurability. The installation can be scaled at any time in the future to enable additional operators, or split down to manage new tasks as required.

**KEY EQUIPMENT USED:**

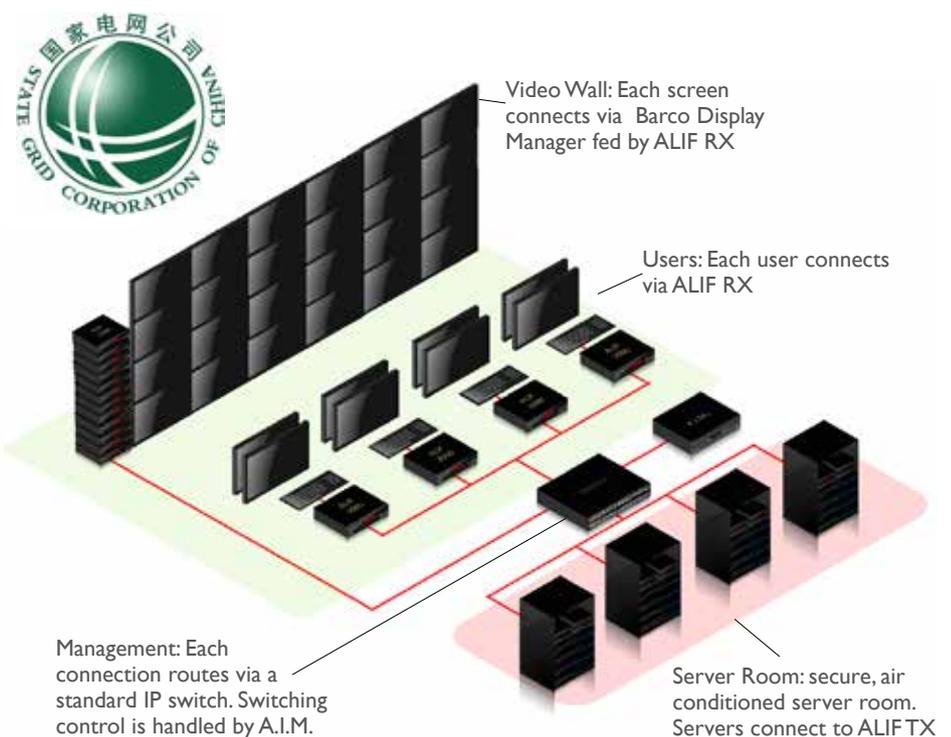
ADDERLink Infinity Dual  
 CCS4USB with Free-Flow  
 RC4 Desk Controllers  
 Barco Display Manager

**ADDERLink Infinity**

- View one 2560x1600 or two 1920x1200 resolution sessions
- Plug and play
- View, access and switch your computing resources remotely
- USB True Emulation - supporting almost any HID device including graphics tablets, 3D explorers, custom keyboards and mice
- Switch to any connected computer via intuitive on screen menu
- Digital stereo audio, 2 way communication (speakers and microphone)
- Fanless

**CCS4-USB**

- Seamless switching between computers
- Multiple computers, multiple monitors, single point of input.
- No software required
- Improved desk ergonomics
- Interactive light modules for identification (CCS-XB)



*"There are several advantages to using Adder's products," said John McGraw, Director of Operations, Hope Industrial Systems. "In addition to the signal extension of up to 1,000 feet (330m), which is two times the length that competitors offered, Adder's extender provides a rugged metal industrial enclosure."*



## Hope Industrial: Integrated extension for controlled environments

Industrial manufacturing requires the right technology solutions – those that enable businesses and manufacturers to get the job done in a rough & tough environment.

### CHALLENGE

Hope Industrial Systems, Inc. based in Roswell, Georgia, provides industrial flat panel monitors and touchscreens that have superior quality and up-to-date features that are relevant to industrial applications. Hope Industrial houses this advanced technology in a variety of rugged enclosures that allow the user to place their displays wherever they are needed in the factory. This is a critical component in assuring its customers

have high reliability. The company provides its monitors through systems integrators and OEMs; as well as directly to brand-name companies in an array of industries including aerospace, food and beverage, chemical, metal and electronics.

As part of its mission to find the right technology solutions, Hope Industrial sought a KVM (keyboard, video, and mouse) extender that would allow the computer to be placed as far away as possible from the industrial monitor. The benefit of such a distance is that a non-industrial computer can be placed in a secure, climate-controlled environment leaving only the rugged industrial flat panel monitors exposed to factory conditions.

Furthermore, the company was looking for a product of the highest quality that could deliver a perfect picture at these lengths.

### SOLUTION

Hope Industrial chose the ADDERLink X Series X-2 Silver Dual-Access KVM

extender. The KVM Extender allows placement of an industrial monitor, keyboard, mouse and serial touchscreen up to 1,000 feet (330m) away from the computer or server using a single CATx cable. The dual version allows computer access both locally and remotely. The company designed the extender into its products which are used by many Hope Industrial customers including Georgia Pacific, General Mills, Pfizer, Proctor & Gamble and Nestle.

*"There are several advantages to using Adder's products," said John McGraw,*



Director of Operations, Hope Industrial Systems. "In addition to the signal extension of up to 1,000 feet (330m), which is two times the length that competitors offered, Adder's extender provides a rugged metal industrial enclosure."

McGraw added, "The X-2 Silver KVM extender also allows for skew adjustment so our customers can fine tune the picture up to 1,000 feet (330m) away. And, it's a good, sharp picture that is better than other products we have tested – and one that can withstand factory interference, which is important."

The KVM extenders are compatible with any computer Hope Industrial's customer may be using. Other benefits of the ADDERLink X2 Dual Access extender include its small form factor, which was one of the reasons that Hope Industrial could integrate it into its product line. Through Hope Industrial, the product is available in three configurations.

1. As a stand-alone product for use with Hope Industrial's Panel Mount Displays. The unit can be mounted behind the panel near the monitor.

2. As a rear-mount KVM Extender for use with Hope Industrial's Universal Mount displays. The extender is mounted in a modular sealed NEMA 4/4X/12 enclosure which is attached to the rear of the display.

3. As a Pedestal-mount KVM Extender for use with Hope Industrial's pedestal mount solutions. The KVM extender is inserted into the pedestal where it is hidden, protected and also sealed to NEMA 4/4X/12 specifications.

## RESULT

"We've received very positive feedback from our customers," said McGraw. "It is a reliable, stable product and we've had to provide very little technical support."

According to the Controls Engineer of Coca-Cola Enterprises, Inc., "We're totally satisfied with the extender. It's small, fast, seamless and you can't even tell that the video is being extended."

*"I spent a great deal of time researching KVM manufacturers, and Adder was the only company with a solution flexible enough to meet our needs."*



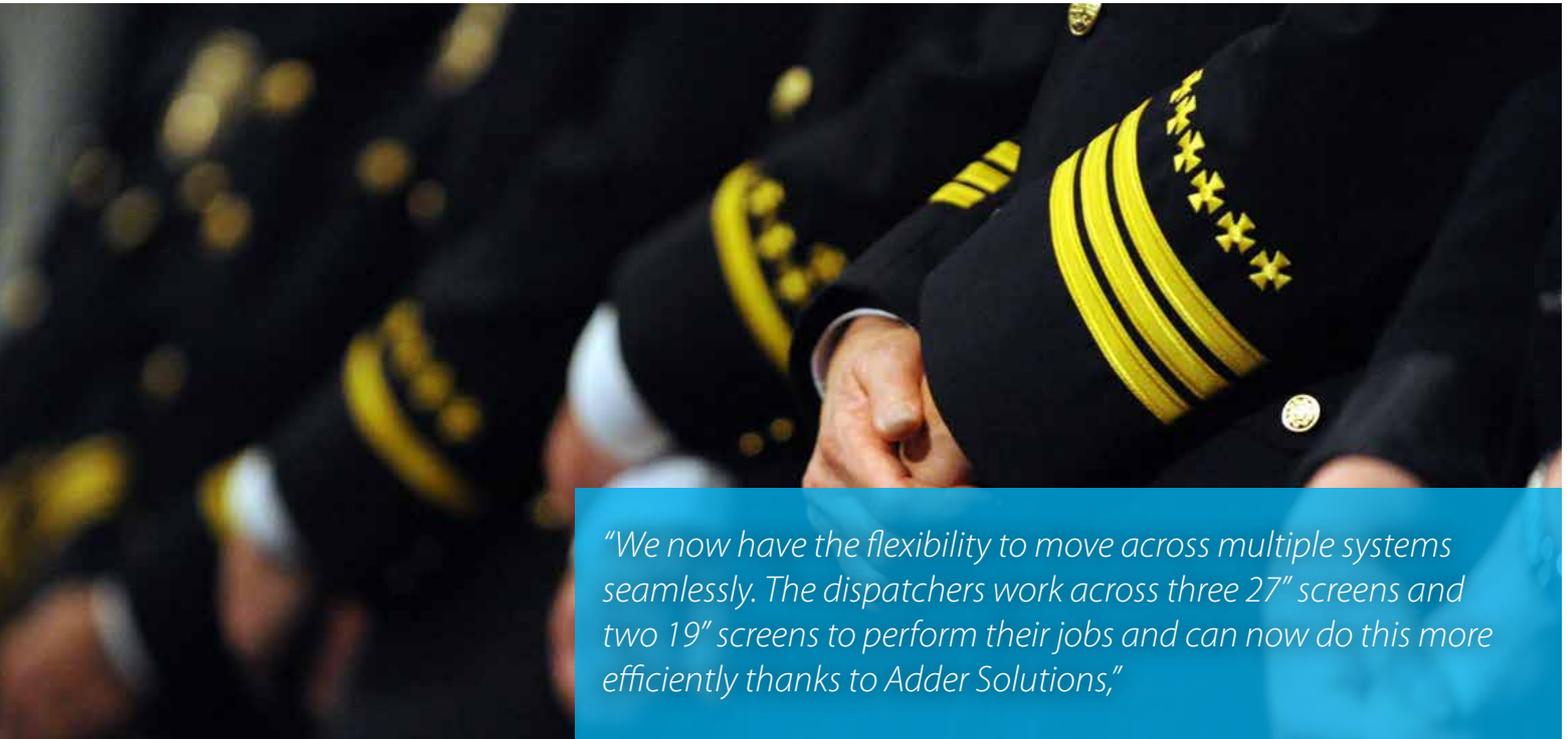
Hope Industrial designs many of its products, including the encased ADDERLink extender to meet standards developed by the National Electrical Manufacturer Association (NEMA). NEMA ratings are useful in defining the types of environments in which an electrical enclosure can be used.

Hope Industrial's black powder coated steel enclosed products have a NEMA 4 rating, which deems them acceptable for providing protection against dirt, rain, sleet, snow, ice, windblown dust, splashing water, and hose-directed water. The company's stainless steel enclosed products have a NEMA 4X rating, which also includes corrosion protection.

According to the Plant Technical Manager of General Mills, "The extenders are quite efficient and they allow us to put the computers in a dry area and just the touchscreens in the wet areas."

Hope Industrial has been working with Adder for several years and has plans to possibly integrate a USB extender from Adder into their products as well in the near future.





*"We now have the flexibility to move across multiple systems seamlessly. The dispatchers work across three 27" screens and two 19" screens to perform their jobs and can now do this more efficiently thanks to Adder Solutions,"*

### 911 Call Center: 24/7 reliability for emergency management

Established in 1995, Orange County Fire Authority is a regional fire service agency. It serves 23 cities in Orange County and all incorporated areas, protecting over 1.6 million residents from its 72 fire stations located throughout the county.



#### CHALLENGE

Providing 911 Operations for 23 cities in the County of Orange, CA is a constant challenge. The OCFA wanted to increase the reliability of its systems and embrace newer technology to improve the working environment of its dispatchers.

Citizens who dial 911 expect help in critical situations; therefore, 911 call centers need to work efficiently to respond promptly and reliably to dispatch the necessary assistance for many different types of emergency situations. Emergency Command Centers need to have the resources and infrastructure to be able to handle responses to ongoing daily demand as well as large-scale disasters. With the volume of calls and the percentage of non-emergency calls growing, and nearly one third of emergency calls coming in from cell phones, dispatchers face more challenges than ever before.

The OCFA had a few objectives in updating its Command Centre. Replace outdated PS/2 with USB peripherals, maintain current single and dual head

VGA monitors, improve ergonomics for each console and utilize standard IP infrastructure throughout the building. 18 dispatch consoles; each with one operative and five screens also had to be able to access four computers located away from the operatives in an access and climate controlled area.

#### SOLUTION

The OCFA IT Infrastructure group thoroughly researched the best solution to update the aging components and improve functionality of the 911 dispatch system. In the end it found that Adder's solution provided the best video and USB extension technology available.

OCFA deployed multiple ADDERLink X-50 and the ADDERLink X-50MS (multiscreen) to extend the keyboard, video and mouse from each computer to each of these consoles. Providing single and dual head video at 1920x1200 resolution and fully transparent full speed USB using standard Cat5 cable up to 150' from the computer source to the operative console this was viewed as the perfect solution.

An Adder Command and Control switch (CCS-USB) was also deployed at each of the 18 consoles. Physically discreet and providing the ergonomic improvement that was required, the Adder Command and Control switch has integrated Free-Flow technology, providing seamless management of multiple systems using a single mouse and keyboard. This allows each dispatcher to easily and seamlessly select and use a system by moving the mouse from one screen the next.

### RESULT

The OCFA Emergency Command Center is a 24/7 operation and is built with full redundancy. The upgrade needed to take place without disrupting this critical public service.

The smooth deployment of the Adder solutions provided critical infrastructure for the 911 dispatching operations, which have four computer systems and five screens that the dispatchers need to be able to reliably switch between in order to provide critical services. The Adder solutions have updated the infrastructure, improved ergonomics at each dispatch station and allowed the removal of computers from the critical operating environment whilst still providing every operative instant access to each of

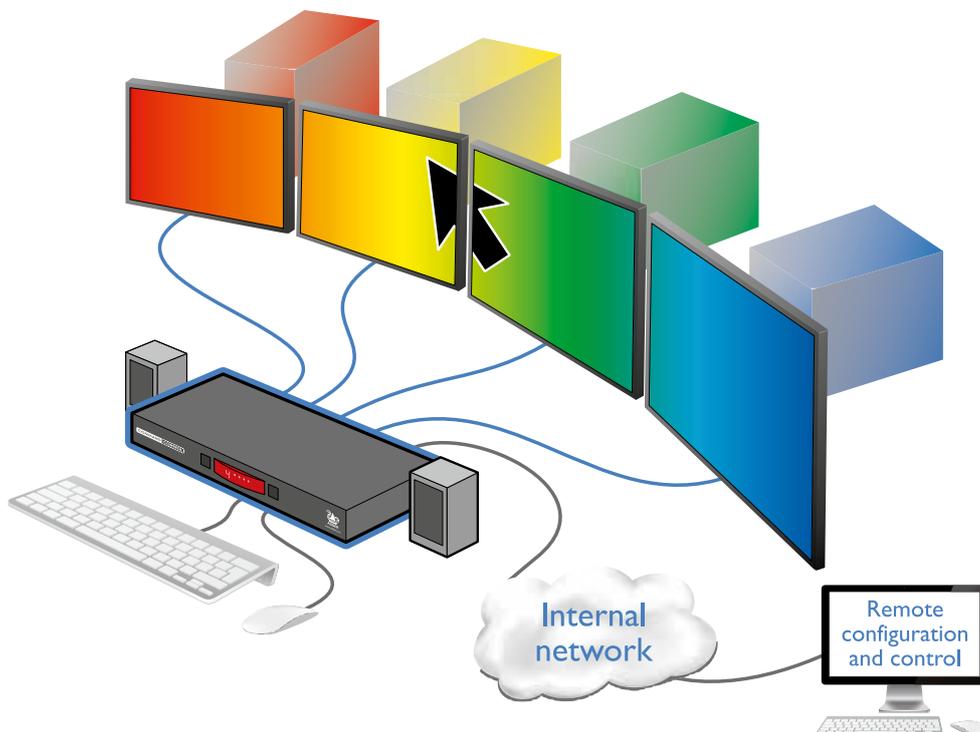


the disparate systems required for the emergency response role.

“The Adder Command and Control switch and the ADDERLink X-50 have been great additions to our 911 Dispatch System,” said Scott Johnson, IT Supervisor, for OCFA. “We now have the flexibility to move across multiple systems seamlessly. The dispatchers work across three 27” screens and two 19” screens to perform their jobs and can now do this more efficiently thanks to the

Adder solution,” he added.

With the addition of the ADDERLink X-50 and ADDER CCS-USB, OCFA is experiencing a great improvement in the management and reliability of the updated 911 Dispatch System. Operatives are able to seamlessly switch between computers and IT are spending less time working on connectivity issues giving the dispatchers a chance to work without interruption.





*"The result has been a huge success, a fully secure and flexible control room KVM solution. This KVM matrix enables their infrastructure and will continue to evolve as the products develop".*

## Worldgrid Management: Optimizing energy control

Country level energy management brings a requirement for integrated software, hardware, network and communication elements to optimize energy management.

### CHALLENGE

In managing some of the world's most comprehensive and advanced energy and utility infrastructures you need to be certain of a multitude of standards and codes. These are far ranging and include internal and national standards covering effectiveness, function, security, ergonomics, environment and more. Advice from bodies including the American National Standards Institute helped inform Adder Technology to ensure that the control room and supervision system delivered was secure and efficient.

Security, access, failsafe options, performance, location and switching

were all challenges that were considered and integrated into the final solution provided by Adder Technology and installed by a third party integrator.

The challenge was to allow a vast number of computers to be located in multiple, remote and ultra-secure server rooms with nominated users granted secure access. These computers then needed to be managed by multiple operators in a separate control room. This quiet control room provides the operators access to the supervision system which controls and monitors all matters relating to energy distribution at a country level. Each user also required a defined profile which permitted defined access and USB control.

### SOLUTION

The integrating team researched all available AV extender, matrix and KVM options and decided upon the ADDERLink Infinity solution. This high performance KVM solution was chosen for its security, performance and the 'simple to use and user-friendly interface'.

The hardware solution comprised multiple ADDERLink Infinity Manager (A.I.M.) units, 1000+ ADDERLink Infinity (ALIF) transmitters (server side) and ADDERLink Infinity receivers (user side). This allowed nominated operators access to the right computers and ability to switch between computers together

with network and hardware redundancy options. The IT security features included full end to end encryption, user identification, definable user permissions, USB control and access rights which were also included for the installation.

User stations were also equipped with the ADDER CCS-PRO4. This hardware requires no software installation and provides a user the ability to seamlessly interact with up to 4 computers using just one keyboard and mouse. This creates a cleaner environment, clearing the desk of multiple mice and keyboards and improving user efficiency.

### RESULT

The project has been over 2 years in the making with continued close cooperation and maintenance planned to run well into the next decade. This has bought about a very close working relationship.

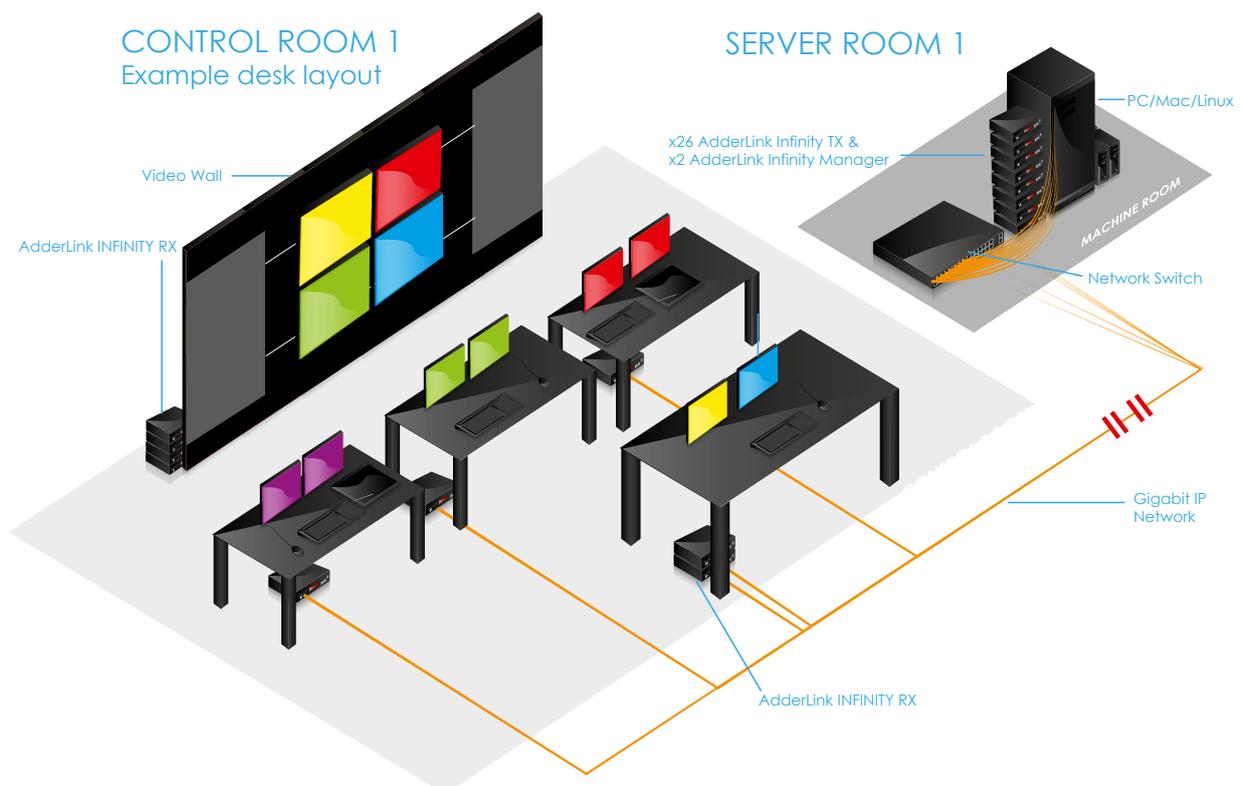
Natasha Laslett, Adder Control Room Specialist, said 'It has been a fantastic project to be a part of and I'm looking forward to how it will continue to develop over the coming years. The scale of the project in number of computers and distances between them has been immense. We must also recognise the technical team who have provided insight into areas that has impacted upon product development.' 'The result has been a huge success, a fully

secure and flexible control room KVM solution. This KVM matrix enables their infrastructure and will continue to evolve as the products develop.' My thanks to all involved'.

**KEY EQUIPMENT USED:**

**ADDERLink Infinity Dual**

- View a 2560x1600 or two 1920x1200 resolution sessions
- Easy to use user interface
- Defineable user profiles
- View, access and switch your computing resources remotely
- USB True Emulation - supporting almost any HID device
- Switch to any connected computer via intuitive on screen menu
- Digital stereo audio, 2 way communication (speakers and microphone)
- Fanless
- Secure, end to end, encryption



# The standard in **Control Room Connectivity**

## BUILDING IN RESILIENCE

Control rooms are the central nervous system of mission critical operations, and as such need to be resilient for any eventuality. Adder's Command & Control solutions have been designed to offer multiple layers of system redundancy to ensure 24/7 uptime of critical systems.

## POWER MANAGEMENT

Many Adder solutions are available with redundant power options, and those that don't offer multiple power sources that can be managed with the ADDER RED PSU, an 8 or 16 port redundant power supply and distribution (PDU) technology. The RED PSU has been designed to support 5V and 12V devices and can be controlled with an on board remote, IP management system. Using the Manager allows you to get a quick overview of all connected devices current power state, uptime, internal & ambient temperature, current usage across ports (Amps) and fan speed. The system can also be used to remotely power cycle devices making the administration and maintenance of large systems from a single desk possible.



Locking power connectors further assures the system owner that in-field failure is not due to inadvertently knocking the connectors resulting in unexpected loss of power.



*ADDER RED PSU 8/16 port redundant PDU PSU*



*ADDER RED PSU  
integrated power mounting  
system for ADDERLink Infinity*

## NETWORK INFRASTRUCTURE

Networks are another potential source of failure in any organization. Although companies like HP, Cisco & Microsoft spend billions of dollars in R&D each year to ensure resilience, accidents can happen, and connections can be lost. Our solutions are designed to work across standard IP networks, which allow us to benefit from the great resilience IP offers, as well as the inherent strengths that IP networks deliver. We use a technology called teaming which benefits the user in two distinct ways. Firstly, it allows us to double the amount of bandwidth we use to deliver pixel perfect and frame accurate content, making our devices indistinguishable from the source. Secondly, the teaming technology allows network switch-over. This means that if your primary network fails, your Adder devices will switch over to the second network. This ensures that the technology continues working seamlessly.

## MANAGEMENT INFRASTRUCTURE

Our range of ADDERLink Infinity devices are controlled by a system called A.I.M. (ADDERLink Infinity Manager). This IP management technology allows you to control your entire ADDERLink Infinity installation. Because A.I.M. is in essence a discreet, dedicated IP server, installations can benefit from network based server infrastructure methodologies. A.I.M. can be configured to run across multiple instances in a primary and back-up topology. In the event of a hardware failure, the current status of every attached device is already mirrored across to the back-up units, to which the end points automatically switch-over. Users are entirely unaffected during this transition which occurs seamlessly and instantly.



### ALIF100T ADDERLink INFINITY 100T: DVI, VGA or display port

Features: Zero U form factor • IP-based: use your existing network • 1920x1200 @60Hz maximum resolution through either DVI, VGA or display port interfaces • USB powered • Low power consumption • Easy to retrofit into existing infrastructure • Support for MacPro



### ALIF1002 ADDERLink INFINITY: Single Link

Features: 100m extension distance on single CATx; unlimited using standard IP network • 500m to 10km over fiber • Single link or single head configuration • 1920x1200 @60Hz maximum resolution • Support for MacPro • Redundant network operation



### ALIF2020 ADDERLink INFINITY Dual: Dual Head

Features: 100m extension distance on single CATx; unlimited using standard IP network • 500m to 10km over a single length of fiber • 1920x1200 @60Hz maximum resolution • USB mass storage supported plus: Keyboard, mouse tablet and touch • Support for MacPro • Redundant network operation



### ALIF2002 ADDERLink INFINITY Dual: Dual Head, Dual Link

Features: 100m extension distance on single CATx; unlimited using standard IP network • 500m to 10km over fiber • Dual Link or dual head configuration • 2560x1600 @60Hz maximum resolution • USB mass storage supported plus: Keyboard, mouse tablet and touch • Support for MacPro • Redundant network operation



### ALIF2112T ADDERLink INFINITY Dual VNC

Features: View 2560x1600 or two 1920x1200 sessions • Real VNC server with RFP 3.3 support • Up to 256bit AES and RSA 2048 encryption • VM support and RS232 for power control • Supports 16 users simultaneously • Out of band Bios level access • Compatible with ADDERLink INFINITY Matrix



### CCS-PRO & CCS-XB **COMMAND CONTROL**

Features: Seamless switching between up to 8 computers with Free-Flow technology • Multiple computers, multiple monitors, single keyboard and mouse • No software required for single screen computers • Improved desk ergonomics • Optional Interactive light modules (CCS-XB) for screen identification



### AIM-XX ADDERLink INFINITY Manager

The A.I.M. management server is a control suite which transforms ADDERLink INFINITY extenders into a digital matrix solution. Using standard IP infrastructure it is possible to route any user station to any computer attached to the network without any compromises to video quality or control. It allows co-operative sharing of computers and the multicasting of video to any destination.

The A.I.M. is licensed to 24 end points (**AIMLIC-24**). Additional license upgrades are available including:

Single A.I.M. deployments

- AIMLIC-48** - 48 end point management
- AIMLIC-96** - 96 end point management
- AIMLIC-192** - 192 end point management
- AIMLIC-288** - 288 end point management
- AIMLIC-UNL** - Unlimited end point management

Dual A.I.M. deployments

- AIMLIC-48-BCK** - 48 end point management
- AIMLIC-96-BCK** - 96 end point management
- AIMLIC-192-BCK** - 192 end point management
- AIMLIC-288-BCK** - 288 end point management
- AIMLIC-UNL-BCK** - Unlimited end point management



## Professional Services: Design & Project Support



### DESIGN SERVICES

The Adder Professional Services group helps to ensure your connectivity solutions deliver the functionality and flexibility you require. With in-depth understanding of I.T. infrastructure alongside years of supporting enterprise and S.M.E. installations, our design team can work alongside end users, system integrators or consultants to develop bespoke solutions.

We employ specialists from a range of industries to deliver the bespoke design that suits you best.



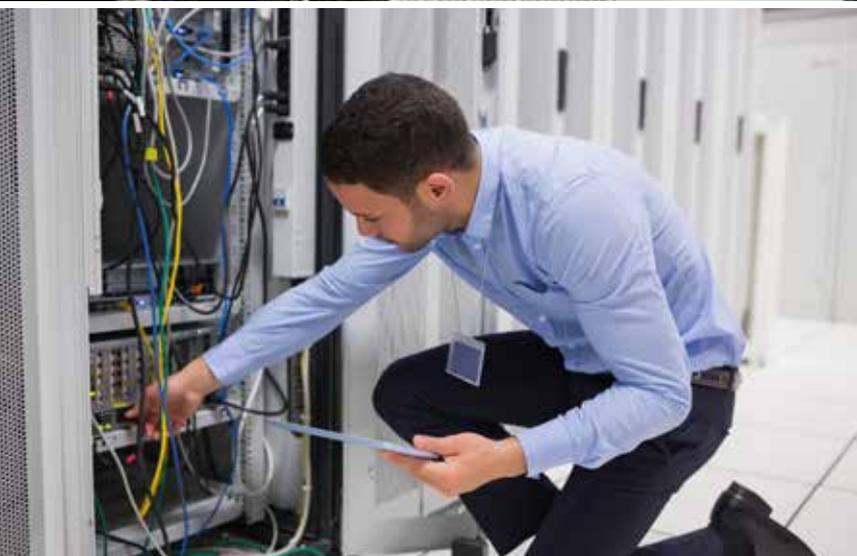
### PROJECT SUPPORT

Adder's experienced project support team are there to help you every step of the way. From pre-configuration through to customer acceptance, we are there to get you up and running quickly and without stress.

Contact us to discuss your requirements.

Project support includes:

- On-site Configuration
- Training for System Integrators, Administrators and Operators
- Remote System Health Checks
- Extended Warranty Options
- Advanced Hardware Replacement Options
- Remote and On-site Support Options
- System Upgrade Services



## Quick Extender Comparison

Please refer to product data sheets for specific details

Product	Video Connector Type: Video 1	Video Connector Type: Video 2	Maximum resolution: Video 1	Maximum Resolution: Video 2	Local Feed Through	USB	Extension Distance	Cable Type	Audio: Line Out	Audio: Line In	RS232
X50	VGA		1920x1440		Yes	2.0	50m	CAT5e	Yes		
X50-MS2	VGA	VGA	1920x1440	1920x1440	Yes	2.0	50m	CAT5e	Yes		Yes
X-USBPRO	VGA		1920x1200		Yes	2.0	300m	CAT5e	Yes		
X-USBPRO-MS2	VGA	VGA	1920x1200	1920x1200	Yes	2.0	300m	CAT5e	Yes		Yes
X-DVIPRO	DVI		1920x1200			2.0	50m	CAT6 STP	Yes		
X-DVIPRO-MS2	DVI	DVI	1920x1200	1920x1200		2.0	50m	CAT6 STP	Yes		
X-DVIPRO-DL	DVI		2560x1600			2.0	50m	CAT6 STP	Yes		
XD150	DVI		1920x1200			2.0 High	150m	CAT6 STP	Yes		
XD522	DisplayPort		3840x2160	1920x1200		2.0 High	100m	CAT6 STP	Yes	Yes	Yes
ALIF1002	DVI		1920x1200			2.0	100m	CAT5e	Yes	Yes	Yes
ALIF2020	DVI	DVI	1920x1200	1920x1200		2.0	100m	CAT5e	Yes	Yes	Yes
ALIF2002	DVI	DVI	2560x1600	1920x1200		2.0	100m	CAT5e	Yes	Yes	Yes
ALIF1002FX	DVI		1920x1200			2.0	500m/10km	Fibre	Yes	Yes	Yes
ALIF2020FX	DVI	DVI	1920x1200	1920x1200		2.0	500m/10km	Fibre	Yes	Yes	Yes
ALIF2002FX	DVI	DVI	2560x1600	1920x1200		2.0	500m/10km	Fibre	Yes	Yes	Yes

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