



High density, small form factor  
audio, video and RS232 distribution

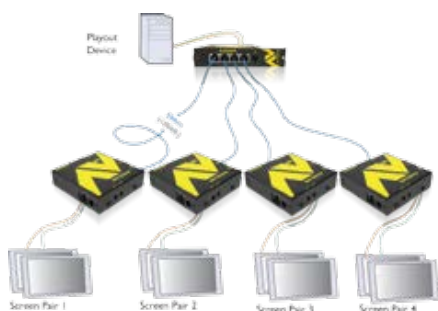
## ADDERLink AV 100 Series

The professional choice for audio, video distribution over CAT5 cable



### PRODUCT IN BRIEF

The ADDERLink AV Series is a range of audiovisual extenders delivering high video resolutions and superb quality audio up to 300m using standard CATx cable (x=5,5e,6,7). The innovative design allows for flexible audiovisual distribution that can be expanded to grow in line with project developments and ensures direct delivery of crystal clear communication to consumers at the point of decision. The ADDERLink AV Series avoids the prohibitive costs of fibre optic cabling, displays with built in CPUs or locating a CPU next to each screen. Consisting of 4 interchangeable units, the ADDERLink AV Series makes the design of digital signage and narrow casting applications cost effective, flexible and easy to plan.



### FEATURES

#### Video performance

Industry leading resolutions of 1600x1200 are achievable at 200m (650ft) and 1280x1024 at 300m (1000ft).

#### Video compensation

The ADDERLink AV units apply a high level of signal compensation that allows for a greatly increased range of very smooth and fine adjustments.

#### Brightness control

The ADDERLink AV offers its own brightness correction to ensure that the image is crisp, clear and bright, regardless of the distance.

#### Audio

Digital audio transmission delivers high fidelity; click-less audio for speakers and microphones.

#### Integrated DeSkew

The ADDERLink AV 101R has integrated skew correction with a 300MHz bandwidth, meaning that it is more than powerful enough to counteract the negative effects of the skew.

#### Rack options

Both transmitter and receiver units can be used standalone or up to 16 units can be mounted into a 3U chassis.

#### ADDERLink AV 100T transmitter and ADDERLink AV 100R

- Sold individually or as a pair (AV 100P)
- Local port on transmitter to connect local screen and speakers or for cascading

- ADDERLink AV 100R duplicates input from transmitter allowing for 2 video and 2 audio outputs

#### ADDERLink AV 104T transmitter

- Extends a single high-resolution video and high fidelity audio signal to 4 different receivers
- Local port to connect local screen and speakers or to cascade to other ADDERLink AV 104T transmitter units

#### ADDERLink AV 101R receiver unit

- Duplicates input from transmitter allowing for 2 video and 2 audio outputs
- Has local cascade port allowing for other receivers to be cascaded from the original receiver

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### 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 the United States, United Kingdom, Germany, the Netherlands, Sweden, China and Singapore.

### TECHNICAL SPECIFICATIONS

#### Video Resolutions

1600x1200 at distances up to 200m (650ft), 1280x1024 at distances up to 300m (1000ft)

#### Extension distance (x=5,5e,6,7)

Up to 300m/1000 ft using CATx (x=5,5e,6,7).

#### Cable Equalisation

Finely adjustable cable equalisation amplifiers enable the video sharpness and brightness to be independently adjusted using the dials on the side of the receiver units.

#### Integral DeSkew (ADDERLink AV101R only)

Skew compensation adjustments can be made using the two rotary dials on the ADDERLink AV101R receiver unit. The first dial affects the relationship between green and blue colour signals, the second red and green. The cable skew is produced due to wire length differences between different twisted pairs in a CATx cable that arise due to the different twist rates used to reduce signalling cross talk. The amount of cable skew seen depends on the cable type used and the cable length. The ADDERLink AV101R provides up to 62ns of DeSkew with a fine 2ns resolution. This means that high-resolution video can be accurately DeSkewed even at long cable distances. The DeSkew supports 300MHz bandwidths, which means it does not adversely affect the video quality.

#### Indicators

The remote and local units are fitted with two indicators; red shows the presence of power into the module, green indicates the presence of a video input.

#### Rack mount options

Both the local (computer-end) and remote (display-end) units may be rack mounted using ADDERLink AV Series rack mount chassis. The chassis enable 16 units to be mounted in 3U of 19-inch rack space. The units are rack mounted using the optional rack mount faceplate.

#### Audio

Transmitted as digital signals to ensure high fidelity and low noise levels

#### Connectors

• **AV100T** Video In/Out: HDD15. Audio In/Out: 3.5mm audio jack. CATx: 1 x RJ45 connector. Power: 2.5mm DC jack

### ORDERING INFORMATION

Extender pair (no skew): **ALAV100P-XX**  
 Remote Receiver only (no skew): **ALAV100R-XX**  
 Local Transmitter only: **ALAV100T-XX**  
 Remote Receiver with skew and cascade port: **ALAV101R-XX**  
 AV101R pack of 4 units: **ALAV101R-4PK-XX**  
 Quad local Transmitter: **ALAV104T-XX**  
 AV104T pack of 4 units: **ALAV104T-4PK-XX**

XX = Mains Lead Country Code:  
 UK = United Kingdom  
 US = United States  
 EURO = Europe  
 AUS = Australia

### ADDITIONAL ACCESSORIES

**ALAV-RMK-CHASSIS**: 19" 3U rack mount chassis  
**ALAV-RMK-FASCIA**: Universal fascia & mounting kit  
**CAB-9M/9F-2M**: 9M/9F Serial cable  
**VSC18**: 2m Tricoax video 15HDD M-M  
**VSC19**: Serial "Y" splitter cable 100mm  
**VSC22**: 2m 3.5mm stereo plug to plug audio cable

- **AV100R** Video Out: 2 x HDD15. Audio Out: 2 x 3.5mm audio jack. CATx: 1 x RJ45 connector. Power: 2.5mm DC jack
- **AV104T** Video In/Out: HDD15. Audio In/Out: 3.5mm audio jack. CATx: 4 x RJ45 connector. Power: 2.5mm DC jack
- **AV101R** Video Out: 2 x HDD15. Audio Out: 2 x 3.5mm audio jack. CATx: in 1 x RJ45 connector out, 1 x RJ45 connector in. Power: 2.5mm DC jack

**Physical (All ADDERLink AV100 units)**  
 Metal case (steel), 98mm x 95mm x 25mm

#### Spike suppression

All ADDERLink AV units are fitted with spike suppression circuits.

#### Display Data Channel

DDC signalling is supported to enable the computer to communicate with the local monitor and thus configure its video card for optimal operation.

#### Power

- Operating Voltage: 100-240VAC
- Power Frequency: 50-60Hz
- Usage: 5VDC at 500mA

#### Operating temperature

0°C to 40°C / 32°F to 104°F

#### Humidity Tolerance

5 to 60% non-condensing

#### Approvals

CE, FCC

### SERIES PRODUCTS

Adder offer a vast range of products to suit your needs. Other products you may be interested in include:

**ADDERLink AV100R**  
Receiver, no skew



**ADDERLink AV100T**  
Transmitter



**ADDERLink AV104T**  
Quad Transmitter



**ADDERLink AV101R**  
Receiver with skew & cascade port

