

Adder ALAV101R-US VGA Digital Signage Extender (Receiver) with Audio/Skew/Cascade Port

Video Resolutions

HD 1920x1080 at distances up to 100 metres/325 feet, 1280 x 1024 at distances up to 300 metres/1000 feet. Extension distance Up to 300 meters/1000 feet using CATx (x=5,5e,6,7).

Extension technology

Differential analogue signalling for video signals.

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 that the DeSkew function 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.

Audio

Transmitted as digital signals to ensure high fidelity and low noise levels. Phase locked sampling clocks ensure that there are no unwanted clicks when no sound is being played.

Rack mount options

Both the local (computer-end) and remote (display-end) units may be rack mounted in the 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.

Connectors (ADDERLink AV100T)

1 x blue 15-pin high-density D-type female connector for video input and 1 x light green 3.5mm audio jack for audio input. 1 x blue 15-pin high-density D-type female connector for video output and 1 x light green 3.5mm audio jack for audio output or cascade to additional AdderLink AV100T. 1 x RJ45 connector for CATx cable connection. 2.5mm DC jack for power adapter.

Connectors (ADDERLink AV100R)

2 x blue 15-pin high-density D-type female connector for video output and 2 x light green 3.5mm audio jack for audio output. 1 x RJ45 connector for CATx cable connection. 2.5mm DC jack for power adapter.

Connectors (ADDERLink AV104T)

1 x blue 15-pin high-density D-type female connector for video input and 1 x light green 3.5mm audio jack for audio input. 1 x blue 15-pin high-density D-type female connector for video output and 1 x light green 3.5mm audio jack for audio output or cascade to additional AdderLink AV104T. 4 x RJ45 connectors for CATx cable connections. 2.5mm DC jack for power adapter.

Connectors (ADDERLink AV101R)

2 x blue 15-pin high-density D-type female connector for video output and 2 x light green 3.5mm audio jack for audio output. 1 x RJ45 connector for CATx cable connection from local unit and 1 X RJ45 connector for CATx cable connection to cascade to additional ADDERLink AV101R receiver units. 2.5mm DC jack for power adapter.

Physical (All ADDERLink AV units)

Metal case (steel and stainless steel), 98mm x 95mm x 25mm.

Power

All AdderLink AV units are powered by an external 5V DC, 2A power supply with IEC power cable connection. A country specific power cord is provided. Alternatively 4 units can be powered using a 4amp power supply and the Adder "squid" cable.

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. Package contents

All AdderLink AV Series come with the necessary IEC style power supply and power cord, safety and installation leaflet, CD manual, stick on rubber feet. (Note: the rack panels are not included and need to be purchased separately as required.)

Optional accessories

ALAV - Series rack mount chassis (part code: ALAV-RMK-CHASSIS), rack mount plate for local/remote unit (part codes: ALAV-RMK-FACIA). Adder 4amp power supply and "squid" cable to power 4 ALAV units (part code ALAV-PDM-KIT).

Approvals

FCC class A, CE marked.

Power

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

Temperature Tolerance

0 - 40 deg C (32 to 104 deg F)

Humidity Tolerance

5 to 60% non-condensing