Adder ALAV201R-US Full HD VGA Digital Signage Extender (Receiver) with RS232/Audio/skew

Video Resolutions

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 AV201R only)

Skew compensation adjustments can be made using the two rotary dials on the ADDERLink AV201R 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 AV201R 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.

Display Management via RS232

Included with AV200 transmitters, the Display Management Software gives users control and interaction with display devices over the integrated RS232 ports. This allows for bi-directional and automated communication with individual screens, groups of screens or all screens at the same time.

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 (ALAV200T, 200R and 201R) or 8 units (ALAV204T and 208T to be mounted in 3U of 19-inch rack space. The units are rack mounted using the optional rack mount faceplate.

Connectors (ADDERLink AV 200T)

1 x blue 15-pin high-density D-type female connector for video input, 1 x light green 3.5mm audio jack for audio input, 1 x 9-pin D-type female for serial 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. 1 x RJ45 connector for CATx cable connection. 2.5mm DC jack for power adapter.

Connectors (ADDERLink AV 200R)

2 x blue 15-pin high-density D-type female connector for video output, 2 x light green 3.5mm audio jack for audio output and 1 x 9-pin D-type male for serial output (use splitter cable for dual serial conections). 1 x RJ45 connector for CATx cable connection. 2.5mm DC jack for power adapter.

Connectors (ADDERLink AV 201R)

2 x blue 15-pin high-density D-type female connector for video output, 2 x light green 3.5mm audio jack for audio output and 1 x 9-pin D-type male for serial output (use splitter cable for dual serial conections). 1 x RJ45 connector for CATx cable connection. 2.5mm DC jack for power adapter.

Connectors (ADDERLink AV 204T)

1 x blue 15-pin high-density D-type female connector for video input, 1 x light green 3.5mm audio jack for audio input and 1 x 9-pin D-type female for serial input. 1 x blue 15-pin high-density D-type female connector for video output, 1 x light green 3.5mm audio jack for audio output and 1 x 9-pin D-type male for serial output or cascade to additional ADDERLink AV 204T or AV 208T. 4 x RJ45 connectors for CATx cable connections. 2.5mm DC jack for power adapter.

Connectors (ADDERLink AV 208T)

1 x blue 15-pin high-density D-type female connector for video input, 1 x light green 3.5mm audio jack for audio input and 1 x 9-pin D-type female for serial input. 1 x blue 15-pin high-density D-type female connector for video output, 1 x light green 3.5mm audio jack for audio output and 1 x 9-pin D-type male for serial output or cascade to additional ADDERLink AV 204T or AV 208T. 8 x RJ45 connectors for CATx cable connections. 2.5mm DC jack for power adapter.

Physical

ADDERLink AV 200T, 200R and 201R Metal case (steel and stainless steel), 98mm x 95mm x 25mm. ADDERLink AV 204T, 208T Metal case (steel and stainless steel), 185mm x 95mm x 51mm

Power

All ADDERLink AV units are powered by an external 5.3V DC, 2A power supply with IEC power cable connection. A country specific power cord is provided. Alternatively 4 units can be powered using a 5.3V DC, 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 ALAV200T, 200R and 201R local/remote units (part codes: ALAV-RMK-FASCIA), rack mount plate for ALAV204T and 208T (ALAV-RMK-XXXXX) 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