Digital Video Extender
Low Power, Small Form Factor,
HDMI with Audio

ADDERLink DV104T

Digital video/audio switch and extender to drive up to four remote displays

PRODUCT IN BRIEF

ADDERLink DV104T is a high performance digital video extender and splitter that enables you to locate your critical play out hardware in a secure and temperature controlled environment away from the display point environment whilst maintaining the same user experience.

- Proof of Display (P.O.D.)
- 50 meter extension distance
- Plug and Play
- Two video inputs, four video outputs
- 2x4 HD Digital matrix
- Line powered receivers

One or two HDMI/DVI feeds

Network

POD Manager

ALDV100R (HDMI) or ALDV120R (DVI-D) receivers

Up to 50m (160ft)

HDMI or DVI-D displays and speakers x4

FEATURES

Two video inputs, four video output splitter and extender
The ALDV104 is an intelligent non blocking cross point switch and extender. These configurations can be selected dynamically via the web interface or controlled by a 3rd party control system.

Proof of display via IP network
The unit determines if the entire system is operating correctly and video is visible on the monitors. It can detect if video is present from the player and whether the cables to the monitors are attached and the monitor is turned on. This information is available by an IP socket thus allowing remote diagnostics and integration into content management systems.

Source failover
The unit can be set to detect that a video stream is present at the input. The unit can be set to automatically switch over to the second video input if the primary fails.

Security
Security on the web interface is by HTTP digest authentication (RFC 2617) with username and password as requested information.

API for 3rd party integration
The API documentation to control and receive data from the unit is provided with the system.

Digital audio
Supports 8 channels of HDMI audio.

Perfect HD Digital Video
The ALDV104T uses an uncompressed video system where every frame is sent without loss with resolutions up to 1920 x 1200@60Hz (WUXGA) including 1080p, 720p and 480p resolutions.

50 meters over a single CATx cable
Video, audio and power all pass along a single CATx cable, providing up to 50m of extension. Distance can be dependent upon CATx cable types and the number of connection breaks for patch panels and wall plates. See overleaf for details.

Dual head extension
With two inputs, the system is suited to extending and splitting dual head systems.

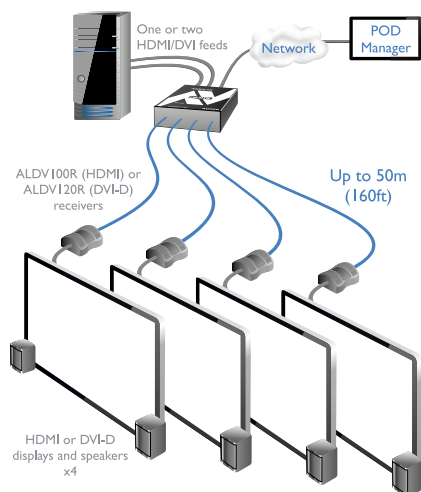### Highly energy efficient - no external power supplies are required
The receivers are designed to be highly power efficient, using less than an eighth of the power required by competing systems. Power is supplied along the CATx cable meaning the support infrastructure required is minimal.

EDID management
The system has intelligent EDID management allowing the true characteristics of the monitor to be passed back to the computer.

Plug and Play
The DV104T is delivered in a zero config state so you can plug and play. There is no need for additinal drivers or software.

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EXTENSION DISTANCE INFORMATION

Recommended cables are CAT7a shieleded foiled twisted pairs:

Resolution	Cable type	Patch connections	Total distance
1920 x 1200@60Hz	CAT7a	0	50 meters
1920 x 1200@60Hz	CAT6a (shielded)	0	50 meters
1920 x 1200@60Hz	CAT6a (shielded)	2	40 meters
1920 x 1200@60Hz	CAT7a	2	40 meters

Daetwyler 7702   Flexible patch cable
Daetwyler 7120   Bulk cable

Category 6 (or better) shielded twisted pair cable must be used to connect the local and remote units in order to maintain compliance with radio frequency energy emission regulations and ensure a suitably high level of immunity to electromagnetic disturbances.

RELATED PRODUCTS

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

ADDERLink DV120
ALDV120P; ALDV120R

ADDERLink DV100
ALDV100P; ALDV100R

ADDERLink LPV150
ALPV150P; ALPV150R

ADDERLink LPV154T
ALPV154T

TECHNICAL SPECIFICATIONS

Hardware compatibility
All computers with HDMI connections - requirement dependent. Will also connect to DVI/DisplayPort with suitable cables

HDMI interface
The system supports resolutions such as 480p, 720p, 1080P or WUXGA (1920x1200) @60Hz and 24 bit color depth. Does not support HDCP

Software compatibility
All known operating systems

Audio
The system delivers eight channels of HDMI audio with sample sizes of 16, 20 or 24 bit at 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, or 192kHz

Connections
2 x HDMI type A male,
4 x CATx sockets for link outputs,
1 x 10/100Base-TX network port (config),
1 x 6P6C RJ12 connector (options port)
2.5mm DC power jack

Operating temperature
0 to 40°C / 32 to 104°F

Note:
Distances are achieved using single lengths of trunk/bulk cable. For each break/patch connection reduce distance by 5 meters. Preferably patch cables should be of type CAT7a and less than 2 meters. Patch cables over 2 meters must be CAT7a.

ORDERING INFORMATION

ALDV104K-XX: DV104 Transmitter unit plus 4 receivers
ALDV104T-XX: ALDV104T only
XX   = Mains Lead Country Code:
UK   = United Kingdom
US   = United States
EURO   = Europe
AUS   = Australia

ADDITIONAL ACCESSORIES

VSCD12: locking HDMI 1.5 metre cable
VSCAT7-50: 50m CAT7 Shielded foiled twisted pair cable
ALAV-RMK-CHASSIS: 19" 3U rack mount chassis
ALDV-RMK-FASCIA: Universal fascia & mounting kit
ALDV100R - HDMI reciever
ALDV120R - DVI-D reciever

Physical design
Compact case, robust metal construction: 115mm / 4.5" (w) x 114mm / 4.5"(d) x 26mm / 1"(h). Weight 440g / 0.97 lb

Power
3pin Toby jack (power adapter included),100-240VAC 50/60Hz, 0.8A, input to power adapter. 12VDC 18W output from power adapter

Approvals
CE, FCC

Proof Of Display (P.O.D):
Adder's unique P.O.D. system can be accessed by any computer, connected to your network.

ADDER®