

Contents

Introduction	1	Diagram	6
Key Features	2	Software	7
Functionalities	4	Specifications	8
Typical Applications	5		

DB-AVCNet-H

Lightweight Video Compression and Ultra-Low Latency

4K Video, Audio and Control over IP Solution

AVCNet-H is a new concept for AV distribution that adopts Gigabit Ethernet technology to switch, extend and distribute audio, controll and lightweight compression video signals at visually lossless levels in real time with resolutions up to 4K (UHD). By leveraging Gigabit Ethernet technology, AVCNet-H delivers unprecedented levels of scalability, versatility and reliability.

AVCNet-H is an independent research and development product by Digibird, with high density encoding and decoding, redundant AV networks and streams, secure content distribution, network error resilience, criticalquality 4K video compression with extremely low latency. AVCNet-H can distribute AV signals using standard offthe-shelf 1GbE network switches, supports a wide array of applications including Point-to-Point Extension and complex Matrix Switching, as well as Video Wall and MultiViewer displays.



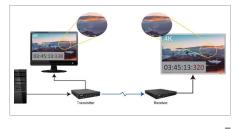


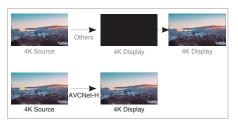
Key Features

Lightweight 4K UHD Video Compression with Ultra-Low Latency

Support up to 4K@30Hz and 1080p@60Hz signal, distribute lightweight compressed AV signals in real time.

AVCNet-H applies a lightweight compression algorithm and meets the mission-critical applications' requirements.





Seamless Switching

Compared with other Matrix Switches, AVCNet-H support seamless switching, the resolution is up to 4K.

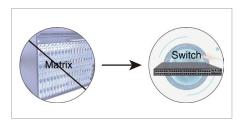
Seamless Switching helps users escape from the bad impression of black screen, expecially when applying to the live broadcast industry.

Unified interface

AVCNet-H convert v arious interface to RJ45 interface, such as VGA, DVI, HDMI, SDI, DP, etc.

This convert is to get a longer transport distan`ce, a stronger capasity of resisting disturbance and an easier way of installation.





Budget Friendly

AVCNet-H run over Gigabit Ethernet, which can easily be integrated into existing network infrastructures.

When designing an AV system, no longer need an expensive AV Matrix Switcher, AVCNet-H is easily accessible and deployed, also cost-friendly AV distribution sulotion.

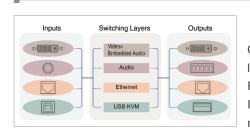


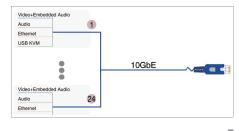
Key Features

Flexible Routing

A single 1GbE cable(CAT5e/6/6a) can transport video, audio and control signals, a 10GbE cabe can carry 24 or more synthesize streams(Video, Audio and Control signals).

Ensuring much greater flexibility and scalability.





Independent Switching

Compared with traditional matrix switches, AVCNet-H use Media layers to route independent signal types, such as video, audio, IR, RS232, etc.

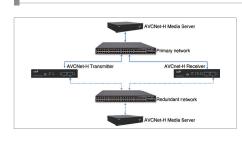
Independent switching layers for all signal types provides fully routable, flexibility and freedom of independent signal switching.

Unconstrained Scalability

No theoretical limitations on I/O size, switching capacity, or transmission distance. The size of the I/O array is only limited by the number of the ports of the Gigabit Ethernet Switch.

Easily add sources, displays, and additional switches as needed.





System Redundancy

Replicate AV over two separate networks and IP streams. Enables primary and redundant networks, as well as delivering primary and redundant AV streams.

Greatly inproved the safety and and stability of the AV system.



Functionalities



4K Transport

4K/UHD @ 30 Hz and 1080p @ 60 Hz.



Audio Mode

Supports Audio Embedding and De-embedding.



Varied Interface Supports HDMI, DVI, DP, VGA, SDI.



KVM Supports USB KVM, can realize remote control though keyboard, display and mouse.

Maximum range up to 100 meters (328 ft.) using a single CAT5e/CAT6/CAT6a cable.



100m Via Net



1024

API

30Km Via Fiber Maximum range up to 30 km using 1GbE optical version.

Unconstrained Scalability

Supports nearly unlimited arrays of I/O nodes.

Integration Sofeware

Powerful Control Software and API enable deep integration into the new or existing AV systems.



FIBER NET

PoE Loop-out For Minitoring Support a loop-out video interface to monitor the sources.

Redundant Backup

Support two Net/Fiber interface to realize redundant backup.



ΡοΕ

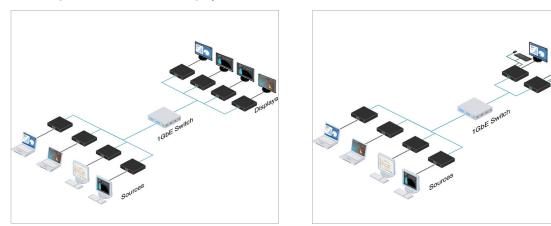
Power over Ethernet, can remotely power Transmitters and Recievers.



Typical Applications

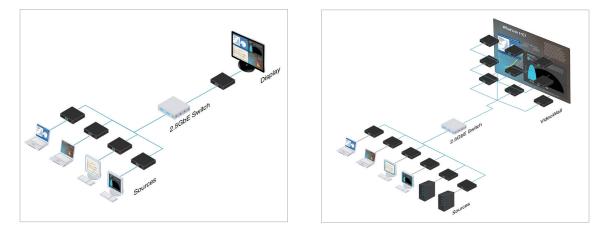
Matrix Switching and KVM

Using a standard management ethernet switch, create a scalable and expandable custom KVM and video matrix.Connect up to 1024 Transmitter and Receiver units. This technology runs on standard network infrastructure, enabling virtually limitless distribution and matrix switching combinations. Easily connect an HDMI, DVI, VGA, DP or SDI source into a transmitter. Video and KVM can all be shared anywhere over a LAN with just a receiver unit and display.



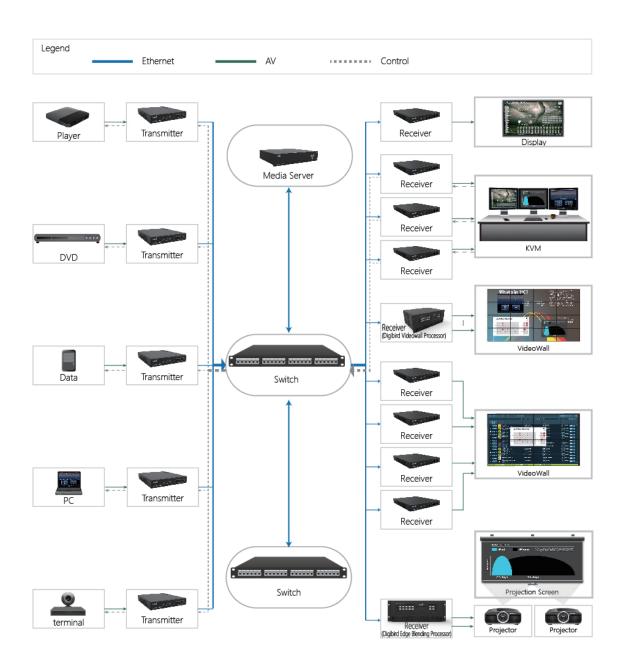
Multiviewer and Videowall

Using a special unit can achieve a large-scale display. Multiple screens are effectively combined to display a large-scale source, at the same, several other windows of sources can scattered on the videowall as needed. By concurrently supporting both matrix switching and video wall capabilities in the same system, AVCNet-H provides two valuable display solutions in one, scalable product. This unique capability gives system integrators the power to go beyond the limits of traditional AV distribution products.





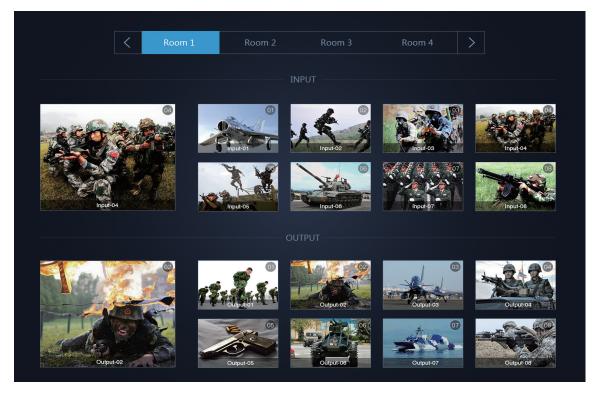
Diagram



Software

Network management and configuration of AVCNet-H products

The AVCNet-H Management and Control System integrates product configuration, management, and updates to reduce installation time and enable remote support.



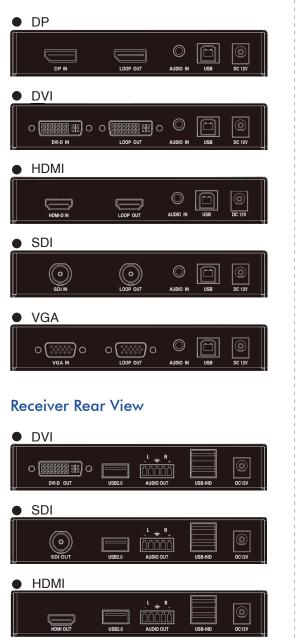
Features:

- Web-based GUI.
- Distributed Software Architecture.
- Online Upgrade.
- Cross-platform support makes the system easy to control, including PCs, Pads, smart phones and touch panels.
- Multiple User Management: Each user has their own ID and system permissions.
- Visible Operations.



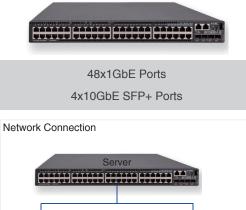
Specifications

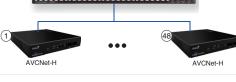
Transmitter Rear View



Recommended Network Switches

• 48x1GbE Ports

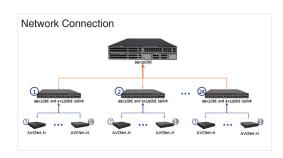




96x10GbE Ports



Each card support 24x10GbE SFP+Ports, Totaled 96x10GbE SFP+ Ports.



Specifications

Names AVCNet-H Transmitter AVCNet-H Receiver Control Mode Client(browser server architecture) Client(browser server architecture) DMIS(Digibird) DMIS(Digibird) DMIS(Digibird) Transmission Mode cat-5e and above cat-5e and above Core Function Uncompressed transmission of Uncompressed transmission of audio, video, keyboard and mouse audio, video, keyboard and mouse Performance Network Protocol Multicast Multicast Output Channel 1080P @60 x 1 1080P @60 x 1 Latency <20ms(from Encoder to Decoder) Seamless Switching ≤16ms(During transitions, no black field, blue screen, splash screen) System Scale Up to 1024 node Video Codec Main Stream: 1920*1080 / 1280*720 Resolution Main Stream: 704*576 / 352*288 Sub Stream: 704*576 / 352*288 Chroma Subsampling 4:4:4 4:4:4 4:4:4 Encoding format VC-2 High Quality VC-2 High Quality System Scale 5-60 5-60 Sub Stream:200K-50Mbps Sub Stream:200K-50Mbps Out Rate Sub Stream:200K-50Mbps Sub Stream:200K-50Mbps Sub Stream:200K-50Mbps </th <th colspan="5">Overview</th>	Overview					
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Video Input1* HDMI 1.3/DVI-D/VGA/ SDI/DP 1.11* HDMI 1.3/DVI-D/VGA/SDI/DP 1.1Loop outsupportN/AAudio2* 3.5mm Mini-Jack5-pole Phoenix connectorNetwork1* 1GbE Ports(shields RJ45 connector with LED indicators)1* 1GbE Ports(shields RJ45 connector with LED indicators)OthersDimensions147*168*27 mm147*168*27 mmWeight0.462kg0.462kgPowerDC 12V±10% 15WDC 12V±10% 15WOperation Temperature0-70°C0-70°COperation Humidity90%(Non condensing)90%(Non condensing)						
Loop outsupportN/AAudio2* 3.5mm Mini-Jack5-pole Phoenix connectorNetwork1* 1GbE Ports(shields RJ45 connector with LED indicators)1* 1GbE Ports(shields RJ45 connector with LED indicators)OthersDimensions147*168*27 mm147*168*27 mmWeight0.462kg0.462kgPowerDC 12V±10% 15WDC 12V±10% 15WOperation Temperature0-70°C0-70°COperation Humidity90%(Non condensing)90%(Non condensing)						
Audio2* 3.5mm Mini-Jack5-pole Phoenix connectorNetwork1* 1GbE Ports(shields RJ45 connector with LED indicators)1* 1GbE Ports(shields RJ45 connector with LED indicators)OthersDimensions147*168*27 mm147*168*27 mmWeight0.462kg0.462kgPowerDC 12V±10% 15WDC 12V±10% 15WOperation Temperature0-70°C0-70°COperation Humidity90%(Non condensing)90%(Non condensing)	·					
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Network connector with LED indicators) connector with LED indicators) Others			-			
Others Dimensions 147*168*27 mm 147*168*27 mm Weight 0.462kg 0.462kg Power DC 12V±10% 15W DC 12V±10% 15W Operation Temperature 0-70°C 0-70°C Operation Humidity 90%(Non condensing) 90%(Non condensing)						
Dimensions 147*168*27 mm 147*168*27 mm Weight 0.462kg 0.462kg Power DC 12V±10% 15W DC 12V±10% 15W Operation Temperature 0-70°C 0-70°C Operation Humidity 90%(Non condensing) 90%(Non condensing)			connector with LED indicators)			
Weight 0.462kg 0.462kg Power DC 12V±10% 15W DC 12V±10% 15W Operation Temperature 0-70°C 0-70°C Operation Humidity 90%(Non condensing) 90%(Non condensing)	Others					
PowerDC 12V±10% 15WDC 12V±10% 15WOperation Temperature0-70°C0-70°COperation Humidity90%(Non condensing)90%(Non condensing)	Dimensions	147*168*27 mm	147*168*27 mm			
Operation Temperature0-70°C0-70°COperation Humidity90%(Non condensing)90%(Non condensing)	Weight	0.462kg	0.462kg			
Operation Humidity 90%(Non condensing) 90%(Non condensing)	Power	DC 12V±10% 15W	DC 12V±10% 15W			
	Operation Temperature	0-70°C	0-70°C			
MTBF 100000 hours 100000 hours	Operation Humidity	90%(Non condensing)	90%(Non condensing)			
	MTBF	100000 hours	100000 hours			