



SET YOUR AV FREE WITH HDBaseT

The HDBaseT Thinking Booklet





THINK HDBaseT

One of the HDBaseT Alliance's primary roles is to educate the market about HDBaseT technology. HDBaseT was introduced to simplify and optimize your AV installation, and we want to make sure you have all the relevant information about HDBaseT in one easy-to-handle booklet.

So read on and learn how you can set your AV free with HDBaseT.



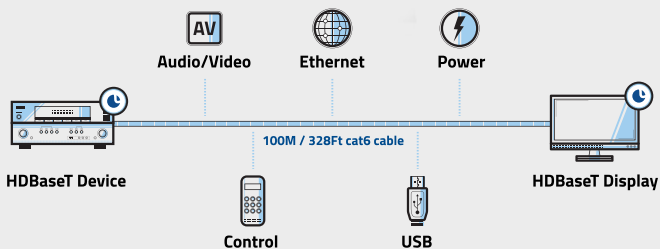
THINK STANDARD

HDBaseT is the ultimate standard for the transmission of ultra-high-definition video & audio, Ethernet, controls, USB and up to 100W of power over a single, long-distance cable. Since its introduction in 2010, HDBaseT has been incorporated in thousands of products in the AV sector, such as displays, matrixes, projectors, AV receivers, and more.

HDBaseT brings a rich feature set – the 5Play convergence of audio & video, Ethernet, controls, USB and power, in addition to increased reach and better performance. HDBaseT delivers quality of experience and top performance, and eliminates cable clutter.

A versatile technology, HDBaseT has evolved over the years to address different sectors and their needs, offering variations to better respond to market demands.

THINK 5PLAY



THINK POSSIBILITIES

What: HDBaseT

Transmission: 5Play delivery of audio & video, Ethernet, controls, USB and 100W of power.

Bandwidth: 8Gbps

Resolution: Up to 4K 60hz 4:2:0, or 4K 30hz 4:4:4.

Compression: Uncompressed, no latency.

Medium: Traditional category (LAN) cables, Cat6 and above, for superior performance, with RJ-45 lockable connectors.

Distance: 100m/328ft

Topology: Point-to-point and point-to-multipoint.

Application: In-room and cross-floor connectivity.

THINK FIBER

What: HDBaseT over Fiber

Transmission: Delivery of audio & video, Ethernet, controls and USB.

Bandwidth: 8Gbps

Resolution: Up to 4K 60hz 4:2:0, or 4K 30hz 4:4:4.

Compression: Uncompressed, no latency.

Medium: Multi-mode fiber (MMF) or single-mode fiber (SMF).

Distance: Depends on the type of fiber utilized (from hundreds of meters/feet to tens of kilometers/miles)

Topology: Point-to-point and point-to-multipoint.

Application: In-room, cross-floor and cross-campus connectivity.

THINK 4K 60HZ 4:4:4

What: HDBaseT with Visually Lossless Compression

Transmission: 5Play delivery of audio & video, Ethernet, controls, USB and 100W of power.

Bandwidth: 18Gbps

Resolution: Up to 4K 60hz 4:4:4, HDMI2.0.

Compression: Visually lossless compression, negligible latency (few μ secs)

Medium: Traditional category (LAN) cables, Cat6 and above, for superior performance.

Distance: 100m/328ft

Topology: Point-to-point and point-to-multipoint.

Application: In-room and cross-floor connectivity.

THINK OUTSIDE THE ROOM

What: HDBaseT-IP

Transmission: 5Play delivery of audio & video, Ethernet, controls, USB and 100W of power.

Bandwidth: High modularity - 10G, 5G, 2.5G, and 1G Ethernet PHY.

Resolution: Up to 4K 60hz 4:4:4, HDMI2.0.

Compression: Supports a variety of delivery domains – uncompressed, lightly compressed, medium compressed and deep compressed into a single hybrid domain with seamless interoperability.

Medium: Traditional category (LAN) cables, Cat6 and above, and fiber (SMF and MMF).

Distance: Depends on the type of fiber utilized (from hundreds of meters/feet to tens of kilometers/miles).

Topology: Point-to-point, point-to-multipoint, multipoint-to-multipoint.

Application: Cross-campus connectivity.

The background features a 3D-rendered scene of various grey, angular geometric shapes. Some shapes are floating in the air, while a large, dense pile of similar blocks occupies the lower half of the frame. The lighting is soft, creating subtle shadows and highlights on the surfaces of the blocks.

THINK BENEFITS



THINK CONNECTIVITY

with the 5Play feature set: audio & video,
Ethernet, controls, USB, and power



THINK DISTANCE

from hundreds of meters/feet to tens
of kilometers/miles



THINK POSSIBILITIES

with one standard technology



THINK THE BEST QUALITY

per available infrastructure



THINK **INTEROPERABILITY**

across any domain



THINK **FLEXIBILITY**

for any use case,
topology or architecture



THINK FUTURE-PROOF

& plug-and-play



THINK OUTSIDE THE ROOM

with HDBaseT-IP



THINK HDBASET!



SET YOUR AV FREE WITH HDBASET

The different flavors of HDBaseT share the same common management system and control mechanism, for end-to-end system optimization. HDBaseT is interoperable all the way, guaranteeing backward compatibility, while future-proofing your installation.

In short, optimizing your installation and setting your AV free.



ABOUT THE HDBASET ALLIANCE

The HDBaseT Alliance advances and promotes the adoption of HDBaseT technology as the global standard for ultra-high-definition, digital connectivity. Since its founding in 2010 by LG Electronics, Samsung Electronics, Sony Pictures Entertainment, and Valens, the Alliance has brought together the leading names in the consumer electronics, professional AV, industrial and automotive manufacturers, and it counts today with more than 180 members and thousands of products in the market.



THE HDBaset ALLIANCE

Contact us at installers@hdbaset.org, or check out the Installer Zone - <http://hdbaset.org/installers/> for more information.