



# things to know about HDBaseT

HDBaseT™ allows AV displays to be installed using the same materials and skills currently used for a LAN infrastructure, creating big opportunities and a new source of revenue for datacom installation experts. By understanding the finer points of this convergence, datacom contractors can become AV experts for their customers. **Here are four things to know about HDBaseT:**

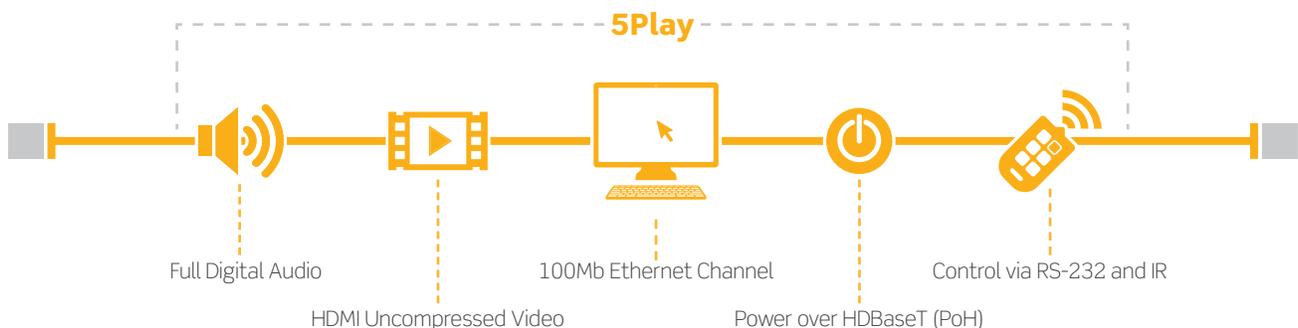
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## HDBaseT is **EVOLVING**

HDBaseT™ was initially introduced as a point-to-point connectivity standard defined by the 5Play™ feature set (video, audio, control, Ethernet, and power). New classifications and updates provide different features for varying applications, distances, and number of segments. This includes expanding HDBaseT as a multipoint-to-multipoint technology and using it to support multistream and daisy chain. The latest information can be found at the HDBaseT Alliance website, [hdbaset.org](http://hdbaset.org).

These updates can be taxing on a lower performing category cable infrastructure, so smart facility managers are using a Cat 6A cable link from the start.





## HDBaseT™ supports 4K

The published HDBaseT maximum distances for supporting 4K HD video are largely based on the HDBaseT class, the strength of the HDMI® signal, and the specific implementation of the HDBaseT technology by the manufacturer. They are also dependent on the performance capability of the category cable.

### CLASS A

4K / 30 fps | Ethernet



### CLASS B

4K / 30 fps



### CLASS C

4K / 60 fps | Ethernet | USB 2.0



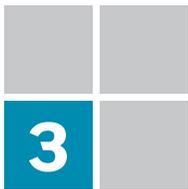
### CLASS D

1080p | USB 2.0



### CLASS E (Fiber)

4K / 60fps



## HDBaseT Devices Include PROJECTORS and DISPLAYS

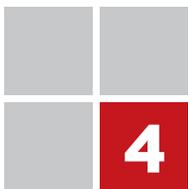
HDBaseT integration with devices reduces the amount of hardware needed and supports easier device powering.

An HDBaseT transmitter can be paired with the latest HDBaseT integrated devices. Several manufacturers now offer projectors with an integrated HDBaseT receiver and HDBaseT port. This allows you to directly connect an HDBaseT transmitter to the projector, eliminating the need for an HDBaseT Extender Receiver.

### STANDARD PROJECTOR



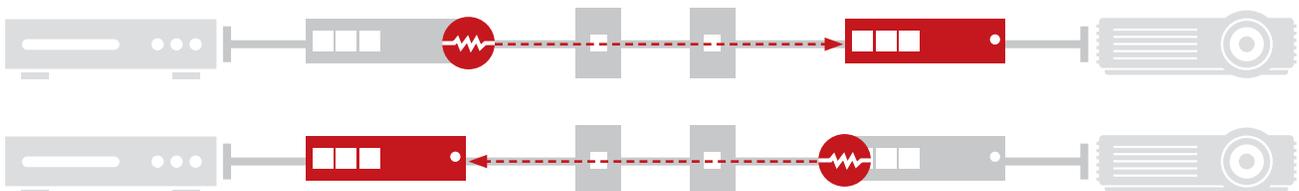
### HDBASET PROJECTOR



## POWER over HDBaseT is Easy

Power over HDBaseT (PoH) powers the HDBaseT link over the category-rated cable. This allows for integrated transmitters in devices like matrix switches to power remote receivers. Similar to Power over Ethernet (PoE) standards, PoH transmitter and receiver pairs draw only 10-15 watts (typically < 300mA @ 48 VDC on the four pairs). Only half of that wattage is sent to the opposite end.

When implemented as a bi-directional solution, such as Leviton IT/AV extenders, the transmitter and receiver pair can be powered at either end, which is ideal for environments where power-outlet locations are limited. They can also be used to power multiple auxiliary devices, such as HDBaseT autoswitching wallplates and control panels.



To learn more about the latest HDBaseT trends and innovations, check out our white paper, **HDBaseT: A Practical Q&A** at [leviton.com/ns/whitepapers](http://leviton.com/ns/whitepapers).