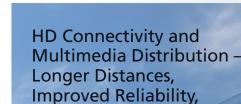
VS010TX HDBaseTTM Transmitter

Controls

Power



Lower Cost

Valens

Audio HD Video





Features

- Complies with HDBaseT 1.0
- Interplay with Valens' VS 100 product line
- Simultaneous distribution of the following to a distance of up to 70 meters over a cat5e/cat6a cable:
 - Uncompressed high definition (HD) video: 1080p@60Hz@36 bits 1080p@60Hz@48 bits, 3D, 4K x 2K up to a distance of 40m/150ft
 - High-quality audio
 - Power over cable
 - Control signals including RS232 and infrared
- HDCP Compliant
- HDMI Rx interfaces for easy integration
- CISPR/FCC Class B EMC/EMI compliance
- Power:
 - 1V, 1.8V and 3.3V
 - 5V tolerant IOs
- 196-pin LBGA, 15mm x 15mm
- 0°C to 70°C operating temperature
- RoHS and Green compliant

Applications

- Blu-ray, DVD players and recorders
- Digital set-top-boxes (STBs)
- Game consoles
- PCs
- HDMI repeaters, splitters, switches
- HDBaseT Switch
- A/V Receivers
- Surveillance Cameras

Overview

The Valens VS010[™] chipset transmits and receives uncompressed HD, video, audio, power and control signals over a cat5e/cat6a cable of up to 70 meters.

HDBaseT delivers a significant value to the entire home and commercial entertainment ecosystem, from CE/PC equipment manufacturers and audio/ video connectivity product suppliers, through systems integrators and retailers, to installers and consumers. Homes, offices, hotels, airports and other public places can now install a robust HD ecosystem easily, effectively and at a very low cost.



VS010TX HDBaseTTM Transmitter

The VS010 family consists of two chips:

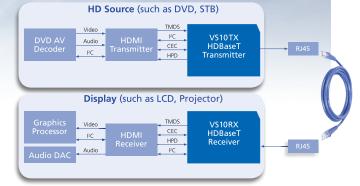
- VS010TX (Transmitter): For DVDs, STBs and other HD source equipment.
- VS010RX (Receiver): For HDTVs, projectors and other display equipment.



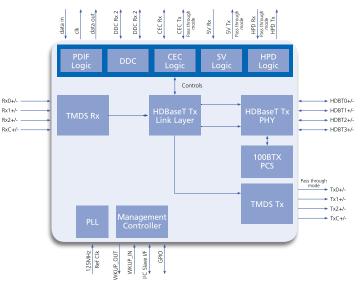
The VS010TX supports the following interfaces:

- HDBaseT Tx
- 1xHDMI in
- 1xHDMI out
- Bi-directional control channel which can be used for example for RS232 and IR control
- I²C slave management

System Functional Diagram



VS100TX High-level Block Diagram



About Valens

Valens is a leading provider of semiconductor products for the distribution of uncompressed HD multimedia content. The company invented HDBaseTTM, the first technology to enable long-reach connectivity of multimedia devices over a single 100m/328ft standard CAT5e/6 LAN cable.

In late 2009, Valens joined with world market leaders to found the HDBaseT Allicance to promote and standardize HDBaseT[™] technology.

Established in 2006, Valens is a private company with offices in Israel, Japan, Hong Kong and the USA.

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