

# USB<sub>2</sub>HDBT

## USB 3.1 Gigabit Network Interface Card (NIC) with HDBaseT interface

HDBaseT transport with multiplexed streams

USB 2.0, I2C, I2S, and UART tunnelling

Software-compatible with Valens SDK

Provided as a bare-bone PCB or in a small size enclosure



## PRODUCT DESCRIPTION

The **USB<sub>2</sub>HDBT** provides an HDBaseT interface through a USB 3.1 (Type B) connection.

**HDBaseT Automotive** is a technology developed by Valens Semiconductor that allows the transmission of audio, data, USB, and Ethernet over a single twisted-pair (UTP) cable, delivering high bandwidth and low latency – up to about 15 meters.

This equipment includes the Valens VA6000 with extended NIC capabilities for rapid integration using a **Gigabit Network Interface Card (NIC) over USB 3.1**.

## KEY FEATURES

### / High bandwidth

Gigabit NIC over USB 3.1, delivering a high-bandwidth path for NIC traffic.

### / HDBaseT transport

Audio, USB, data (Ethernet) signals multiplexed over a single HDBaseT link.

### / Plug-and-Play

Simple to use, with no additional drivers required for proper operation.

## MAIN APPLICATIONS

**USB<sub>2</sub>HDBT** is primarily used in automated test equipment (ATE) for electronic components that employ HDBaseT automotive interfaces, enabling thorough validation of high-speed audio, and data transmission.

Beyond ATE, it can also support design verification setups for R&D teams developing next-generation automotive infotainment systems, production end-of-line testers to guarantee consistent product performance, and quality assurance labs for compliance and interoperability testing.

## TECH SPECS

### Dimensions (in mm)

50 (w) x 60 (l) x 20 (h)

### Weight (in kg)

0.2

### Power Supply

/ Voltage: 5V DC

/ Current: 2A (max)

/ Frequency: DC

### Connectors

/ **MATenet interface:** HDBaseT connection

/ **USB 3.1 network card interface:** USB 3.1 connection for Gigabit NIC.

/ **USB 2.0 Type-A (port 1):** Connected to VA6000 USB interface; NIC data may be multiplexed with HDBaseT data as per product design.

/ **USB 2.0 Type-A (port 2):** Exposes a virtual serial interface (CDC-ACM) for configuration via VALUE (Valens software).

Mod.239HDBT.EN.D



**Controlar**  
innovating industry

+351 225 898 410  
info@pt.controlar.com  
www.controlar.com

**Controlar, S.A.**  
Rua do Caulino, 314  
4445-259 Alfena  
Portugal



01 PORTUGAL | 02 SPAIN | 03 MEXICO | 04 GERMANY | 05 INDIA | 06 MALAYSIA | 07 CHINA | 08 USA

