

89KTP0504U Active

Evaluation Board for 89HP0504U USB3 Repeater, 2-lane, 5Gbps

The 89HP0504U Repeater Evaluation Board is designed to enable quick in-system testing of IDT's 4-channel, 5Gbps USB3 Repeater IC product.

This board provides a 2-lane connection from a USB3 host through the Repeater to an HDD, memory stick or other USB3 device. One of the lanes includes an 18-inch trace segment to emulate PCB connectivity. This Evaluation Board is powered from the USB host connector. It is connected via two USB3 cables to a host controller and storage device or other peripheral.

The 89HP0504U Repeater is I2C configured, and this Evaluation Board provides a USB-to-I2C bridge circuit which allows simple connection to a PC for accessing the Repeaters control and status registers via IDT's Repeater Configuration Utility (GUI). The Repeaters receiver, transmitter, and other device configuration parameters can be easily adjusted using the GUI to provide optimum operation. Device configuration can be stored in the on-board serial EEPROM, or saved as a data file, for later use.

Features

- Contains one 89HP0504U USB3 Repeater that compensates for PCB trace attenuation and ISI jitter
- 2-lane USB3 interface card
- Short and long 18" trace path options
- Configurable via USB or I2C interfaces using IDT Windows GUI
- EEPROM supports automatic download of configuration data to the 89HP0504U repeater
- Enables individual channel configurations of ten parameters including: receiver equalization and threshold voltage, transmit swing and de-emphasis, slew rate, etc.
- Multiple power connection options
- Card format: 2.375" x 5.625"

Product Options

Orderable Part ID	Part Status	Buy Sample
89KTP0504U	Active	Availability

Technical Documentation

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Title	Format	File Size	Date
User Guides & Manuals			
 89EBP0504U (36QFN) USB3.0 Evaluation Board User Manual	PDF	1.06 MB	Feb 2, 2011
Other			
 89EBP0504U Eval Board Schematics - Fab # 18-701-000 (optimized for printing)	PDF	480 KB	Aug 29, 2010
 89EBP0504U Eval Board Schematics - Fab # 18-701-000 (layered for online viewing)	PDF	1.16 MB	Aug 29, 2010

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Product ID	Title ▼
89HP0504U	USB Signal Repeater

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89KTP0504U Evaluation Board USB3-2lane with I2C configuration

