

89KTP0604S Active

Evaluation Board for 89HP0604S SATA Repeater 4-channel 6Gbps

The 89HP0604S Repeater (QFN) Evaluation Board is designed to enable quick in-system testing of IDT's 4-channel, 6Gbps SATA Repeater IC product.

This board provides a 2-lane connection from SATA host through the Repeaters to an HDD, SSD or other SATA device. One of the lanes includes an 18-inch trace segment to emulate PCB connectivity. This Evaluation Board is powered from a standard PC supply 3.3V SATA power connector. It is connected via two SATA cables to a host controller and storage device.

The 89HP0604S 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 89HP0604SZBNRG SAS/SATA Repeater that compensates for PCB trace attenuation and ISI jitter
- 2-lane SATA interface card with full SAS/SATA protocol support
- 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 89HP0604S 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

[SHOW ALL COLUMNS](#)

Orderable Part ID	Part Status	Buy Sample
89KTP0604S	Active	Availability

Technical Documentation

[SHOW ALL COLUMNS](#)
[SHOW ALL COLUMNS](#)

Title	Format	File Size	Date
User Guides & Manuals			
 89EBP0604S (36QFN) SATA Evaluation Board User Manual	PDF	1.99 MB	Jan 31, 2011
Other			
 89EBP0604S Eval Board Schematics - Fab # 18-703-000 (optimized for printing)	PDF	508 KB	Aug 30, 2010
 89EBP0604S Eval Board Schematics - Fab # 18-703-000 (layered for online viewing)	PDF	1.27 MB	Aug 30, 2010

Related Products

Product ID	Title ▼
89HP0604S	SAS/SATA Signal Repeater

[DOWNLOAD MANUAL - EVAL BOARD](#)


Quick Links

[Product Options](#)
[Technical Documentation](#)
[Related Products](#)

Tools & Support

[TECHNICAL SUPPORT](#) 
[REQUEST INFORMATION](#) 
[CONTACT A SALES REPRESENTATIVE](#) 

Images

89KTP0604S SATA Evaluation Board 2Lane with I2C configuration

