USB 3.0 5Gb/s Bidirectional Redriver

The PS8713 is a Single Port, bidirectional USB 3.0 redriver device that exhibits low power consumption. It is designed to be placed within the USB 3.0 high speed signal path to improve signal integrity, enabling a longer physical media link, for example, and/or to improve reliability. The device's bidirectional configuration provides a high level of system integration.

**KEY FEATURES**

- Bidirectional one-channel USB 3.0 redriver (5.0Gbps)
- Low power consumption in active, standby, suspend (no-connect), and power down modes
- Supports Low Frequency Periodic Signaling (LFPS) with fast LFPS enter/exit time
- Supports full USB 3.0 power management with additional automatic power saving functions
- Configurable input equalization and output de-emphasis levels
- Supports hot plug with Automatic Receiver Detect
- Integrated 50Ω termination resistors on input and output
- In-Line signal connection pins for flow-through PCB layout
- Single Power Supply
  - PS8713A: Single 1.5V Supply
  - PS8713B: Single 3.3V Supply
- 4x4mm 24-pin TQFN Halogen free RoHS Package
- 0°C to 85°C operating temperature range
- ESD: Human Body Model at 8 kV & IEC 61000-4-2, 5kV Direct Pin Zapping

**APPLICATIONS**

For more information, please contact us.
- Desktop and mobile personal computers
- Docking stations
- Servers
- Workstations
- Data storage systems

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