



UFS 4.0 Redriver IC for High-Speed Signal Integrity

Phison PS7351 is a linear, low power redriver IC solution designed to unleash the full potential of high speed signal transmissions in the UFS 4.0 era. The design enables an 2-lane signal relay point that offers programmable equalization with flexible output swing and flat gain over a variety physical mediums. In addition, PS7351 performs high frequency boosting with minimal channel-to-channel cross-talks, additive jitters, and return losses comparable to a passive component in real-world action, making it a dependable choice across diverse applications.

Application

AI PC / Chromebook



Product Features

High Range of EQ Boosting and Linearity

PS7351 offers up to 10dB of EQ boosting range with a maximum linear output range of up to 490mV in terms of peak-to-peak voltage (Vpp) measurements. With flexible output swinging, PS7351 transmits and receives signals with outstanding accuracy and minimal disturbances.

Independent Multi-Band Compensation

PS7351 supports a unique I2C mode for multi-band independent compensation adjustments. This allows system engineers to independently tune parameters for cables or PCB traces to achieve the best compensation for signal attenuation.

PCI-SIG Compliant PCIe Redrivers

Having gone through extensive interoperability and signal integrity validation under UFS 4.0 specifications, PS7351 is fully compliant with JEDEC UFS 4.0 standards. Its proven linear, low-power redriver architecture ensures reliable high-speed data transmission.

“PHiTUNE” Automatic EQ Tuning Tool

Phison’s patented software tool automatically configures the initial gain parameters suited for the targeted development environment before signal results get collected for continued search of optimized settings with AI technology.

Redriver

PS7351

Features	Specifications
Interface	- UFS 4.0 - Backward compatible with existing UFS generation transfer rates
Channel Count	- 4 channels
Function	- Pure Redriver
Package	- FCLGA 42
Body Size	- 6.5 mm x 4.0 mm
Supply Voltage	- 1.2V
Max EQ Boosting Range	- 0 ~ 10.6dB @ 12GHz
Max Output Linear Range	- 490 mVppd
Operating Junction Temperature	- Operating range: -40 ~ 125 °C - Storage range: -40 ~ 125 °C
PCIe Protocol Participation	- Protocol unaware
"PHiTUNE" Auto EQ Tuning	- Support



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