



New Product Announcement

PI4ULS3V4857

6-Bit Bidirectional Level Shifter for SD 3.0-SDR104 Compliant Memory Card Applications

The PI4ULS3V4857 is an SD 3.0-compliant bidirectional dual voltage level translator without direction pin control.

It can translate the memory card voltage to 1.8V or 3.0V signal levels from 1.2V to 1.8V levels on the host side and supports: SD 3.0 SDR104(208Mhz), SDR50(100Mhz), DDR50(50Mhz), SDR25(50Mhz), SDR12(25Mhz) and SD 2.0 High-Speed (50 MHz) and Default-Speed (25 MHz) modes.

The device has an integrated voltage selectable regulator, built-in EMI filters, and ESD protection.



The Diodes Advantage

- **SD 3.0 specification compliant voltage translation SDR104**
Supports SD 3.0 and is backward compatible with legacy SD card standards
- **1.2 V to 1.8 V host side interface voltage support**
Direct connection to latest host CPU/SOC ASICs eliminates the need for an external level shifter
- **LDO 100 mA supply the I/O pins on SD card side**
Eliminates external components and reduces the total BOM cost
- **Integrated EMI filters and pull-up and pull-down resistors for digital I/Os**
Eliminates external EMI components and reduces the total BOM cost
- **20-ball WLCSP; pitch 0.4 mm**
Small footprint for compact applications

Applications

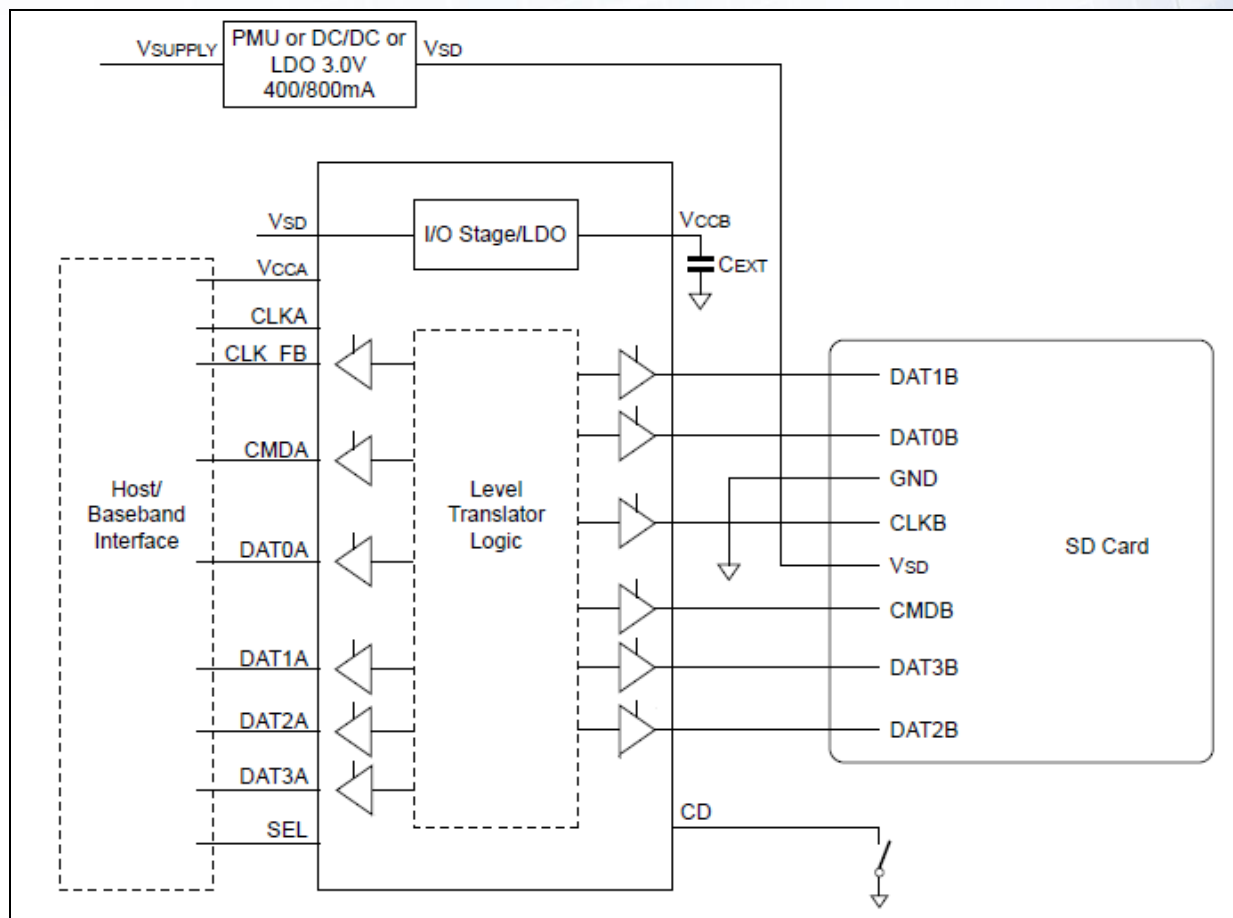
- Smartphones
- Digital cameras
- Notebooks
- SD, MMC or microSD card readers



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Typical Application Circuit



Ordering Information

Part Numbers	Package Code	Package	Reel Size	# per Reel
PI4ULS3V4857GEAEX	GEA20	WLCSP-20	7"	3,000

Cross Reference

Competitor	Part#	Package	Diodes Ordering Part#
NXP	NVT4857UK	WLCSP	PI4ULS3V4857GEAEX

For further information:

<https://www.diodes.com/part/PI4ULS3V4857>