



New Product Announcement

PI4ULS5V106

Bi-Directional Level Shifter for Open-Drain and Push-Pull Application

The PI4ULS5V106 supports up to 100MHz up translation and greater than 100MHz down translation at $\leq 30\text{pF}$ cap load and up to 40MHz up/down translation at 50pF cap load which allows the LSF family to support more consumer or telecom interfaces (MDIO or SDIO). It has bi-directional voltage translation without the need for DIR pin which minimizes system effort (for PMBus, I²C, or SMBus).

The PI4ULS5V106 is 5V tolerant on I/O port which makes it compatible with TTL levels in industrial and telecom applications.

Different voltage translation levels can be used on each channel for increased flexibility.



The Diodes Advantage

- **Supports up to 100MHz**
High Performance
- **Allows bi-directional voltage translation between 0.95V~3.3V**
Wide Range Voltage Support
- **Low Standby Current**
Power Efficiency
- **Low R_{DS(ON)} reduces signal distortion**
Higher Quality Signals
- **I/O port tolerant to 5V signals allowing TTL signals interface**
Flexible Design
- **Package: UQFN3X3-16**
Industry-Standard Packages

Applications

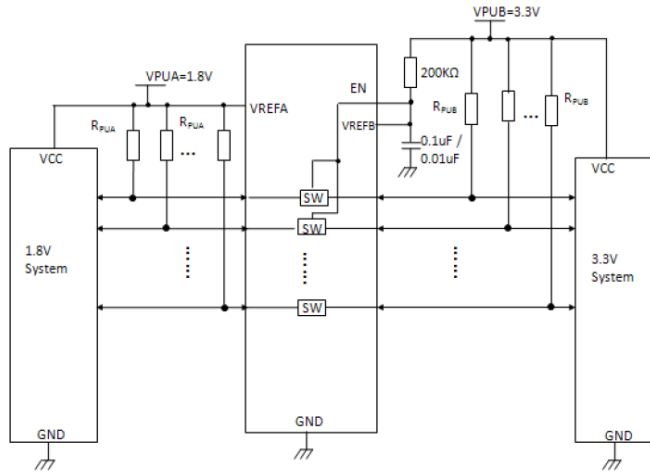
- Mobile phones and other portable devices
- GPIO, MDIO, SDIO, SVID, UART and SPI
- SMBus, PMBus and I²C



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Typical Application Circuit



PI4ULS5V106

Ordering Information

Part Numbers	Package Code	Package	Reel Size	# per Reel
PI4ULS5V106ZHDEX	ZHD	16-Pin, 3x3 (UQFN)	13"	3,500

Cross Reference

Competitors	Package	Diodes Ordering Part #
NXP	NVT2006BS (HVQFN16)	NVT2006BS

For more information: <https://www.diodes.com/part/PI4ULS5V106>