



## NXP SD Card Interface

# SD Card Interface: LDO, Outstanding ESD, and Highest Clock Speed!

High Resolution images and High Definition video generate large data files. Secure Digital SD3.0 SDR104 memory cards stores data much faster with NXP's SD Card Interface. Over 200MHz clock, high ESD protection, and voltage level translation down to 1.2 V seamlessly interfaces SD 3.0 and legacy SD cards to MCUs and SOCs.

Feature	Benefit
Supports up to 208 MHz clock rate	Fastest SD Card Interface available
SD 3.0 specification-compliant voltage translation SDR104	Supports latest SD card class
Integrated 8 kV ESD protection	IEC 61000-4-2, level 4 on card side
1.2 V to 1.8 V host side interface voltage support	Direct connection to latest host CPU/SOC ASICS
Feedback channel for clock synchronization	Enables fast data transfers
LDO 100 mA supply the card	Eliminate external components
20-ball WLCSP; pitch 0.4 mm	Small footprint



## TARGET FUNCTION

Secure Digital (SD3.0) Interface

## END APPLICATION

Smartphones, Digital Cameras, Wireless Modems

## DOCUMENTATION INFORMATION

Item	Description
NVT4857UK	Product data sheet

## DEMO BOARD

Due to the necessary integration of this device with the end application hardware (to achieve ESD protection and physical placement of the SD Card adapter) an NXP demo board is not available.

## ORDERING INFORMATION

Type number	Topside mark	Package		
		Name	Description	Version
NVT4857		WLCP20	wafer level chip-size package; 20 bumps (5 x 4), size 1.7 x 2.1 x 0.49 mm, 0.4 mm pitch	NVT4857

Type number	Orderable part number	Package method	Minimum order quantity	Temperature
NVT4857		WLCP20		Tamb = -40 °C to +85 °C

## ADDITIONAL INFORMATION

To more information visit [www.nxp.com](http://www.nxp.com)

For questions, e-mail [i2c.support@nxp.com](mailto:i2c.support@nxp.com)



[www.nxp.com](http://www.nxp.com)

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