



The First Ultra-Low-Voltage spiFlash® Memories

New 1.2V Devices Feature Small 8-Pin Packages

1.2V Serial NOR Flash

SpiFlash® Memories with SPI, Dual-SPI, Quad-SPI

General Description

Winbond W25QxxND 1.2V series parts are the industry's lowest voltages NOR flash memories in 8-pin packages, these newest members of the SpiFlash® family provide designers with serial flash memories for mobile, wearable, IoT and other demanding applications that call for low power in small packages.

Their low voltages and 52 megabytes per second transfer rate make the new SpiFlash® memories optimal for a broad range of consumer and industrial applications.

Package Information

Voltage	Flash Density	Part Number	Package
1.14V - 1.6V	128 Mb	W25Q128ND	SOIC8 208mil, XSON8 4x4mm
	64 Mb	W25Q64ND	SOIC8 208mil, USON8 4x3mm
	32 Mb	W25Q32ND	SOIC8 208mil, USON8 4x3mm
	16 Mb	W25Q16ND	SOIC8 150mil, XSON8 2x3mm
	8 Mb	W25Q81ND	SOIC8 150mil, USON8 2x3mm

* See data sheet for further technical information. This is subject to change without notice.

Low Power, Wide Temperature Range

- Support 1.14V to 1.6V range
- 2mA active current
- < 0.5µA power-down current
- -40°C to +85°C operating range

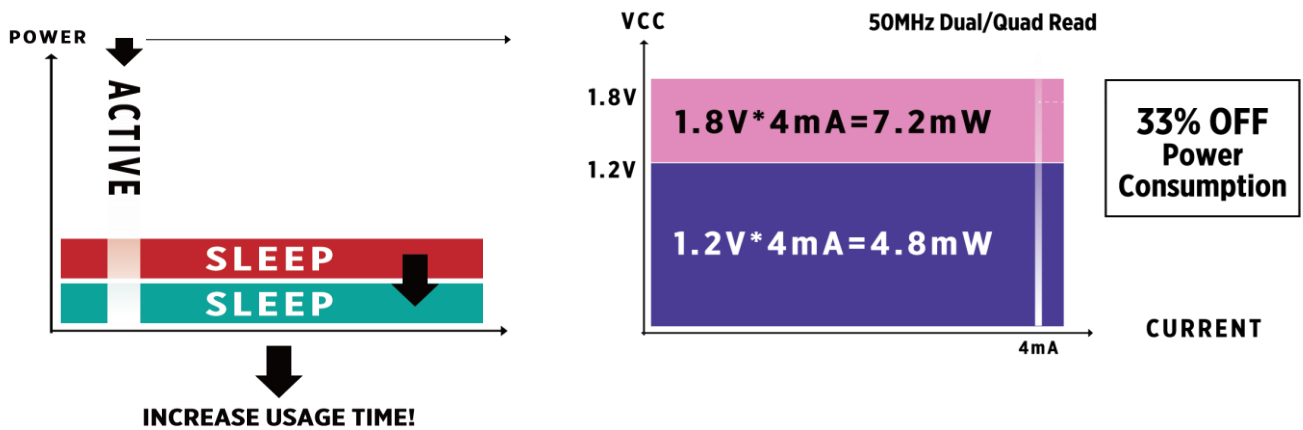
Flexible Architecture with 4KB Sectors

- Uniform sector erase (4K-bytes)
- Uniform block erase (32K and 64K-bytes)
- Programmable one to 256 bytes
- Erase/Program suspend & resume

winbond

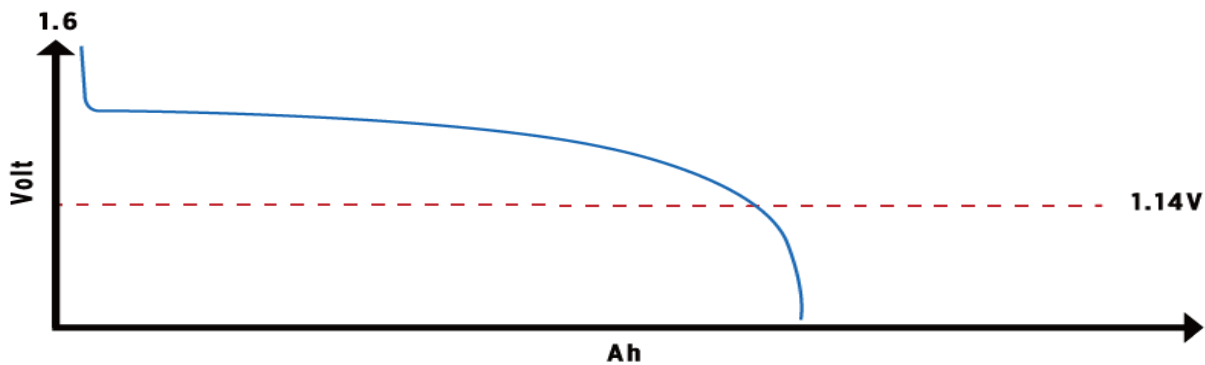
Key Features

- **Better power consumption**



- **Cover most of AA battery life**

Support 1.14V-1.6V



- **Easy to adopt**

Backward compatible command set

- No software/firmware change request
- Just voltage change

Small package for portable device

- SOP8 150mil
- WLCSP
- USON8 2x3mm
- Known Good Die

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