

GigaDevice Introduces 1.2V GD25UF SPI NOR Flash Product to Meet Advanced SoCs' Need for ultra-Low Power and High Performance

- GD25UF series featuring single 1.2V supply offers industry's lowest Active Read power consumption
- GD25UF's 1.2V capability enables a direct interface to SoCs and processors produced on advanced process nodes, reducing their die size and simplifying their power supply architecture



GigaDevice introduced the [GD25UF](#) series of SPI NOR Flash in its strategic roadmap of 1.2V Flash products supporting systems-on-chip (SoCs) and applications processors built on advanced process nodes. The [GD25UF](#) SPI NOR Flash products are optimized for applications that require ultra-low power consumption or a small board footprint.

The GD25UF products operate at a supply-voltage range of 1.14V-1.26V. This is ideal for devices built on advanced process nodes and operating at a core voltage of 1.2V, as it provides for a simpler power system architecture, and for direct interfacing between the I/O pins of the SoC or processor and the GD25UF device.

With the GD25UF products, GigaDevice provides better specifications than other competing 1.2V products in the parameters that manufacturers of mobile communications devices, wireless modems and wearable devices care most about. In low-power mode at a frequency of up to 50MHz, Active Read current can be as low as 0.4mA at slower frequencies. Deep power-down current of 0.1µA makes the GD25UF ideal for any battery-powered or wearable application. In addition, industry-best program and erase times help increase device manufacturing throughput while reducing system power consumption.

In Fast Read mode, these Flash devices operate at up to 120MHz and achieve a data-transfer rate of up to 640Mbits/s. In low EMI mode, operating at 80MHz over a double transfer-rate (DTR) quad I/O interface, the GD25UF products achieve the same data-transfer rate of 640Mbits/s while minimizing clock-generated noise, an ideal feature for noise-sensitive wireless applications.

The 64Mbit GD25UF64E is in production now. It is supplied in SOP8, 3mm x 4mm or 4mm x 4mm USON8 and WLCSP packages, or as a known good die. The 128Mbit GD25UF128E is sampling. Products with memory capacity of 32Mbits and 256Mbits are in development.

Features	
Status	MP
Voltage	1.14V~1.26V
Density	64Mb
I/O Bus	Single I/O Dual I/O Quad I/O DTR
Frequency (MHz)	120(x1 x2 x4) 80(x4 DTR)
Features	DTR Default 4I/O H/W RESET WP# Locks Security Registers with OTP Suspend Unique ID HOLD#
Packages	SOP8 208mil USON8 3x4mm USON8 4x4mm WLCSP (4-4 ball array)
Temperature	-40°C~85°C -40°C~105°C -40°C~125°C



Singel 3 | B-2550 Kontich | Belgium | Tel. +32 (0)3 458 30 33
 info@alcom.be | www.alcom.be
 Rivium 1e straat 52 | 2909 LE Capelle aan den IJssel | The Netherlands
 Tel. +31 (0)10 288 25 00 | info@alcom.nl | www.alcom.nl