

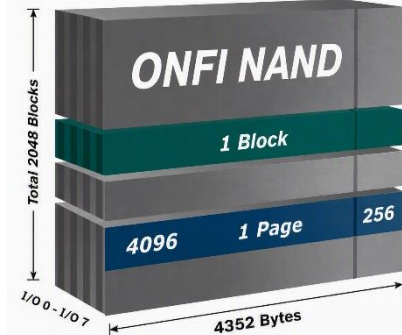
ONFI NAND Flash

- > Gigabit solution for high-density applications
- > ONFi 1.0 Compliant

Winbond, a leading provider of memory solutions, offers a family of ONFI NAND Flash memories designed to meet the demands of the Gigabit code storage market. With densities ranging from 1Gb to 8Gb, these products follow the industry standard for command set, interface, and packages.

Winbond's ONFI NAND Flash is compliant with ONFI 1. To meet the stringent demands of embedded applications, we offer both industrial and automotive grades at temperatures up to 115°C. This extended temperature support makes Winbond's ONFI NAND Flash memories ideal choices for customers seeking dependable solutions across a wide range of applications.

1 Page = 4096 + 256 bytes
1 Block = 64 pages
= (256K + 16K) bytes
1 Device = 2048 blocks
= (512M + 32M) bytes



Note: Regarding the page size of each part number, please refer to the table in page 2.

ONFI NAND Flash Applications

Winbond ONFI NAND Flash are allocated with flexible spare area, supporting 1-bit, 4-bit, or 8-bit ECC to address the diverse reliability and performance requirements of embedded systems. This allows customers to choose the product that best meets their needs and preferences. Whether you are considering an upgrade to your current code storage system or exploring new options, Winbond's ONFI NAND Flash memories can address a variety of industrial, consumer, and automotive applications.

Automotive / Industrial

- Central Information Center
- Vehicle-To-Everything (V2X)
- Point of Sale (POS), Automation

Consumer

- Networking, XDSL, Passive Optical Network (PON)
- M2M Module, Surveillance
- Printer, Digital Camera
- Set-Top Box (STB)
- IoT

Winbond ONFI NAND Flash Memory Selection Guide

Voltage	Density	Part Number	Page Size	ECC Required	I/O	Package Type
3V	8Gb	W29N08GV	2K+64Bytes	1-bit or 4-bit	X8	TSOP48 ¹ , BGA63
	4Gb	W29N04GV	2K+64Bytes	1-bit or 4-bit		TSOP48 ¹ , BGA63
	2Gb	W29N02GV	2K+64Bytes	1-bit or 4-bit		TSOP48 ¹ , BGA63
	1Gb	W29N01HV	2K+64Bytes	1-bit or 4-bit		TSOP48 ¹ , BGA48, BGA63
1.8V	8Gb	W29N08LZ	4K+256Bytes	8-bit	X8	TSOP48 ¹ , BGA63
	4Gb	W29N04LZ	4K+256Bytes	8-bit		TSOP48 ¹ , BGA63
	2Gb	W29N02GZ	2K+64Bytes	1-bit or 4-bit		TSOP48 ¹ , BGA63
	1Gb	W29N01HZ	2K+64Bytes	1-bit or 4-bit		TSOP48 ¹ , BGA48, BGA63

1. For TSOP48 package, please contact Winbond. 2. For the parts with X16 I/O, please Winbond for more information.

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Winbond Electronics Corporation
No. 8, Keya 1st Rd., Daya Dist., Taichung
City 428, Taiwan
Tel: 886-4-25-218168

Email: mkt_online@winbond.com

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Winbond Electronics Corporation America
2727 North First Street,
San Jose, CA 95134, U.S.A.
Tel: 1-408-943-6666



www.winbond.com