

W35N Series

- Higher Density
- 120MB/s and up to 240MB/s



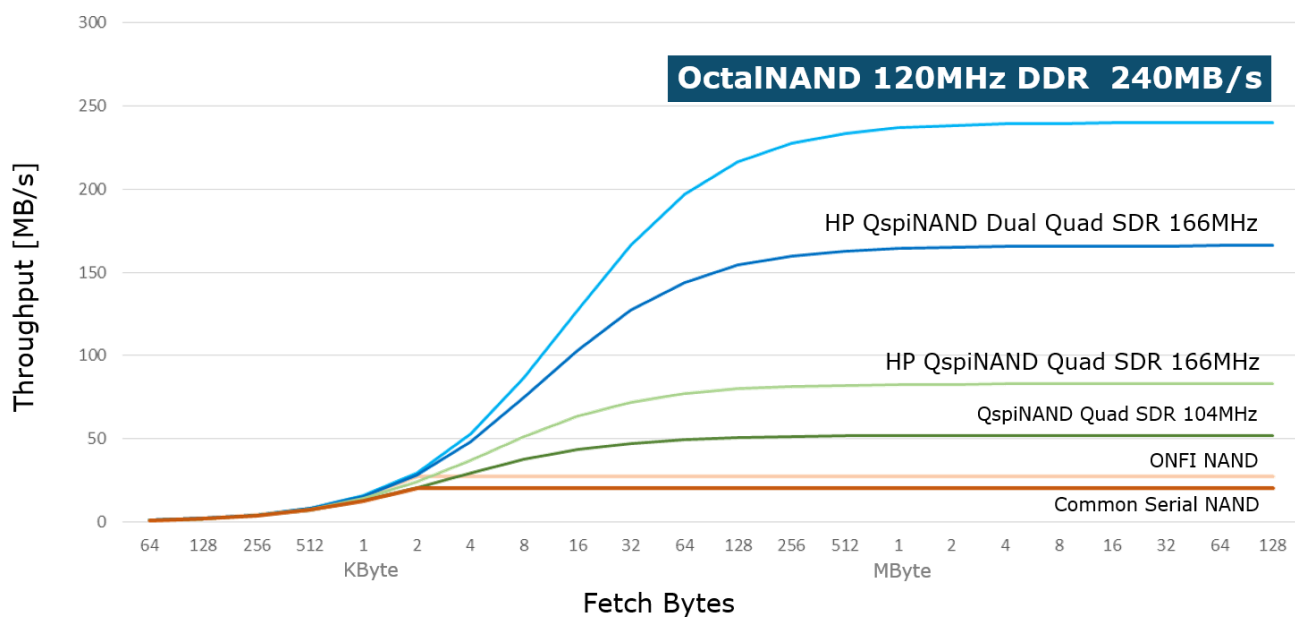
OctalNAND Flash

Fast, low-cost alternative to Octal NOR Flash in densities of 1Gbit and higher

The world's first x8 Octal interface for NAND Flash, Winbond's OctalNAND Flash enables automotive and industrial manufacturers to provide code storage in high density without having to pay a premium for NOR Flash, a fast memory technology which scales poorly at densities above 512Mbits.

The first Winbond product to include the new interface, the 1Gbit W35N01JW, offers a maximum continuous Read throughput of 240MB/s, three times faster than the earlier high-performance W25N-JW Quad Serial NAND Flash family. Winbond OctalNAND Flash is capable of erasing up to 400 times faster and programming up to 50 times faster than serial NOR Flash which is suitable for OTA applications.

Manufactured in Winbond's proven 46nm Single Level Cell (SLC) NAND fabrication process, the W35N-JW OctalNAND Flash offers excellent data integrity and more than ten years' data retention. It is specified to perform up to 100,000 Program/Erase cycles, providing the high level of endurance and reliability required in mission-critical automotive and industrial applications.



Features

Benefits

- Built-in ECC
- Bad Block Management Lookup Table (BBM LUT)
- Buffer Read and Continuous Read modes
- One Time Programmable page (OTP)
- Automotive Grade 2 (-40°C to 105°C) operating temperature

Wide Range of Applications

- Instrument cluster applications, Advanced driver assistance systems
- Devices that need fast OTA (Firmware update over the air), including industry, automation, smart home, smart energy, IoT, smart watch.

Voltage	Density	Part Number	Speed (MHz)	I/O	Package
1.8V	1Gb	W35N01JW	166 MHz (STR) 120 MHz (DTR)	x1/x8	TFBGA-24 8x6mm (5x5-1 Ball Array)
	2Gb	W35N02JW			
	4Gb	W35N04JW			

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

winbond

Winbond Electronics Corporation

No. 8, Keya 1st Rd., Daya Dist.,

Taichung City 428303, Taiwan

Tel: 886-4-25218168

Email: mkt_online@winbond.com

Version: Feb 2025

Winbond Electronics Corporation America

2727 North First Street,

San Jose, CA 95134, U.S.A.

Tel: 1-408-943-6666



www.winbond.com