

Versatile, easy, scalable, efficient NOR flash



Micron NOR flash

Today's applications demand an unprecedented combination of features, including high-density fast data throughputs, secure data storage, architectural flexibility and long-term product support. Strike a balance between design requirements and cost by equipping your demanding platforms with our reliable, high-performance NOR flash.

Built on advanced process technology, our NOR flash targets the needs of automotive, embedded, consumer, and networking applications as well as the next-generation of Internet of Things (IoT) applications. Our industry standard packaging, pinouts, command sets, and chipset support and compatibility make our NOR flash easy to design-in, saving valuable development time while ensuring compatibility with existing and future designs.

Why buy Micron NOR flash?

Innovative portfolio

Rely on one of the industry's most advanced NOR flash portfolios, with devices offered in a broad range of densities and packages.

Competitive solutions

Get instant power-on with best-in-class 400MB/s read throughput; improve firmware updates with extremely fast 2MB/s program throughput.

Expert support

Our NOR products are backed by over 30 years of industry leading technical expertise and innovation in semiconductor design and manufacturing. You'll get the stability, flexibility, support and availability you need in a long-term memory solution with a long-term memory provider.

Key features and benefits

Density: Industry standard 128Mb–2Gb.

Security: Enabled with protection against accidental and malicious code modification, including replay protected monotonic counters (RPMC), on select MPNs, block/sector locking, OTP protection register, hardware/software protection, modifiable security device state, protection after power-up, write protection.

Voltage: Low-voltage (1.7–2.0V) solutions as well as full-voltage (2.7–3.6V) support.

Software: RTOS, Linux®.

Performance: Operation up to 200MHz DDR, 400MB/s read throughput, 2MB/s program throughput, 600 KB/s erase speed; best-in-class frequency in full voltage and extended temperature ranges.

Interface: Single SPI, dual I/O, quad I/O, twin-quad I/O, octal I/O and standard parallel interfaces along with double transfer rate (DTR) mode to enable a high degree of flexibility, performance and backward compatibility.

Package options: Industry standard green package options, such as TBGA, SOIC, DFN, TSOP, LBGA, in addition to ultra-small wafer-level chip-scale package (WLCSP) options.

Temperature range: Full industrial (–40°C to 85°C), grade 2 (–40°C to 105°C) and grade 1 (–40°C to 125°C) temperature support to address a variety of applications.



NOR flash applications

Micron’s NOR flash meets the requirements of many segments:

Automotive: Using advanced NOR flash process technology, robust design methodologies and stringent dedicated testing flow, our highly reliable NOR solutions are AEC-Q100 qualified. They support extended automotive temperature ranges for use in a variety of environmental conditions, and they provide higher-capacity storage for cluster and dashboard applications, in-vehicle infotainment system (IVI), and advanced driver assistance systems (ADAS).

Embedded: Our NOR flash solutions help designers reduce board space, lower power consumption, and reduce overall costs in the embedded systems that serve IPC/factory automation, healthcare, enterprise networking, industrial transportation, infrastructure equipment and aerospace and defense applications.

Consumer: Our NOR solutions provide fast code execution, low voltage and small footprint options to meet the design requirements of consumer products such as wearables, AR/VR, cameras, printers and home automation.

Full-spectrum solutions

Compatibility-tested to work with a broad spectrum of processors processors, our NOR flash products offer a range of densities to provide advanced memory solutions for a diverse array of designs. Empower your data-intensive applications with proven reliability and fast memory execution, while staying on target with design costs.

With one of the most advanced NOR flash portfolios in the industry, Micron delivers a broad range of cost-effective devices that add value to both high and low-end applications. Our product family can help simplify the design process with industry-standard interfaces and packaging, as well as extended voltage and temperature ranges.

Contact us

Visit micron.com for more details on NOR flash solutions. Contact your Micron sales representative with questions or for samples and support.

NOR flash product family

Product family	Voltage ¹	Bus width	Density range ¹	Speed	Package options ¹
Xccela™ Flash (MT35X)	1.7-2.0V, 2.7-3.6V	x1, x8	256Mb-2Gb	200 MHz DDR (400 MB/s)	BGA
MT25Q	1.7-2.0V, 2.7-3.6V	x1, x2, x4	128Mb-2Gb	133-166 MHz (90 MB/s)	SOIC, DFN, BGA, KGD, CSP
MT25T	2.7-3.6V	x1, x2, x4, x8	256Mb-1Gb	133 MHz (180 MB/s)	SOIC, BGA
MT28EW	1.65-3.6V	x8, x16	128Mb-1Gb	95ns, 20ns page	TSOP, BGA
MT28FW	1.65-3.6V	x16	1Gb-2Gb	105ns, 20ns page	BGA

¹Not all densities available in all package and voltage combinations. Some densities offered as stacked solutions.

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Products are warranted only to meet Micron’s product data sheet specifications. Products, programs, and specifications are subject to change without notice. Dates are estimates only.
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