

Automotive Solutions

Micron is powering the automotive industry with high-quality memory products that optimize car engines while entertaining passengers and keeping our roads safer.



Innovation Driven

Micron has been a leading supplier of memory to the automotive and associated industries for over 25 years. Our memory products work to optimize car engines, entertain passengers and keep our roads safer. Micron's dedicated automotive segment team has built an in-depth understanding of the industry, contributing to the development of automotive practices and recognized methodologies. Micron's product portfolio is designed and manufactured so that customers can rely on us as a single source for volatile and nonvolatile memory needs. Micron meets automotive compliance through:

- ISO 26262 – ASIL
- TS 16949
- AEC-Q100 qualification

A long-term partner, dedicated to our customers' success

In establishing our Product Longevity Program (PLP), Micron demonstrated our understanding of the automotive industry's need for long-term product support. We are committed to making select memory products available for an extended lifecycle and giving customers the peace of mind that eligible memory products that they are designing in today will be available for 10 years or more. In addition, Micron strives for operational excellence through:

- Zero line stops
- 8D for non-conformities
- Continuous improvement

An innovator for next-generation innovation

Micron continues to develop our knowledge base and relationships to ensure that our current and future products are aligned with industry requirements. We think proactively, bringing the right technology to our customers at the right time, making Micron memory a meaningful and successful part of their design cycles and product lines. We also have strong partnerships with industry chipset vendors, ensuring a total solution that is optimized for automotive manufacturers.

Applications

Advanced Driving Assistance Systems

- Driving lane assistance
- Adaptive cruise control
- Collision avoidance
- Pedestrian avoidance
- Fog vision, night vision
- Parking assistance
- Camera module

Cluster/Dashboard

- Digital instrument gauges
- Heads-up display

Infotainment

- Navigation systems
- Connectivity (V2V, V2I)
- Radio, satellite radio, DVD
- E-call, voice recognition
- Multimedia

Powertrain

- Engine control unit
- Transmission control unit
- Hybrid engine solutions



A world-class supplier

Quality is a key factor in major purchasing decisions for this market. All of our products are manufactured with the highest quality and reliability standards. Selected devices, targeting power train and driving assistance applications, are tested with an extended temperature range of -40°C up to 125°C for the highest reliability. Our products have been qualified per AEC-Q100 requirements and are manufactured in ISO/TS-certified locations.

As new designs emerge and requirements shift, Micron will continue to offer one of the broadest portfolios of memory products to make the driving experience safer and more enjoyable.

Optimized Memory and Storage Solutions for Automotive

Product Family	Series	Bus Width	Density Range	Supply Voltage	IT Temp Ranges	Automotive Grade Temp Ranges	Package Options
DRAM							
SDR	MT48	x8, x16, x32	64–256Mb ¹	3V	–40/85°C	–40/105°C	FBGA, TSOP
DDR	MT46	x8, x16	256–512Mb	2.5V	–40/85°C	–40/105°C	FBGA, TSOP
DDR2 ²	MT47	x8, x16	512Mb–2Gb	1.8V	–40/95°C	–40/125°C	FBGA
DDR3 ²	MT41	x8, x16	1–8Gb	1.35V, 1.5V	–40/95°C	–40/125°C	FBGA
DDR4	MT40	x8, x16	4–8Gb	1.2V	–40/95°C	–40/125°C	FBGA
LPDDR	MT48	x16, x32	128–512Mb	1.8V	–40/85°C	–40/105°C	FBGA
LPDDR	MT46	x16, x32	128Mb–4Gb	1.8V	–40/85°C	–40/105°C	FBGA
LPDDR2 ²	MT42	x16, x32	512Mb–4Gb	1.2V	–40/85°C	–40/125°C	FBGA, PoP
LPDDR4 ²	MT53	x32	4–16Gb	1.1V	–40/95°C	–40/125°C	FBGA
NAND							
NAND SLC	MT29F	x8, x16	128Mb–16Gb	1.8V, 3.3V	–40/85°C	–40/105°C	VFBGA, TSOP
e.MMC	MTFC	x8	4–128GB	3.3V	–40/85°C	–40/105°C	LBGA, TFBGA, VFBGA
NOR							
Parallel SLC	MT28EW/ MT28FW	x8, x16	512Mb–1Gb	3V	–	–40/105°C	LBGA, TSOP
Serial	MT35X	x1, x8	256Mb–1Gb	1.8V, 3V	–	–40/105°C	SO16W, TPBGA
Serial	MT25Q	x1, x2, x4	128Mb–1Gb	1.8V, 3V	–	–40/105°C	SO16W, TPBGA
Serial	MT25T	x1, x2, x4, x8	256Mb–1Gb	3V	–	–40/105°C	SO16W, TPBGA
SSD							
SATA 6 Gb/s SSD	M500IT	–	60–240GB	3.3V, 5V	–40/85°C	–	2.5-inch, mSATA
Notes: ¹ 256Mb SDR, x8 and x16 only. ² Ultra temperature availability based upon newest process node. Please contact your local sales representative with questions. For automotive usage cases only.							

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