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Numonyx® NOR flash for automotive applications



## Numonyx® NOR flash for automotive applications, AEC-Q100 compliant

A wide selection of parallel and serial NOR and NAND flash memories with automotive-grade solutions

NUMONYX® AXCELL™ M29 FLASH MEMORY								
Density	Part Number	Product Family	Voltage Supply	Temperature Range (°C)	Temperature Range (Code)	Bus Width	Package Type	Package Options
2 Mb	M29F200FT/B55M3	M29F <sup>1</sup>	5V	-40 to +125	3	x8/x16	SO44	Lead-free
	M29F200FT/B55N3	M29F <sup>1</sup>	5V	-40 to +125	3	x8/x16	TSOP48	Lead-free
	M29F200FT/B5AM6	M29F <sup>1</sup>	5V	-40 to +85	6	x8/x16	TSOP48	Lead-free
	M29F200FT/B5AN6	M29F <sup>1</sup>	5V	-40 to +85	6	x8/x16	TSOP48	Lead-free
4 Mb	M29F400FT/B5AM6	M29F <sup>1</sup>	5V	-40 to +85	6	x8/x16	SO44	Leaded and lead-free
	M29F400FT/B5AN6	M29F <sup>1</sup>	5V	-40 to +85	6	x8/x16	TSOP48	Lead-free
	M29F400FT/B55N3	M29F <sup>1</sup>	5V	-40 to +125	3	x8/x16	TSOP48	Lead-free
	M29W400FT/B55N3	M29W	3V	-40 to +125	3	x8/x16	TSOP48	Lead-free
	M29W400FT/B5AZE6	M29W	3V	-40 to +85	6	x8/x16	BGA48	Lead-free
	M29F400FT/B55M3	M29F	5V	-40 to +125	3	x8/x16	SO44	Lead-free
8 Mb	M29F800FT/B55M3	M29F <sup>1</sup>	5V	-40 to +125	3	x8/x16	SO44	Leaded and lead-free
	M29F800FT/B55N3	M29F <sup>1</sup>	5V	-40 to +125	3	x8/x16	TSOP48	Lead-free
	M29F800FB/T5AN6	M29F <sup>1</sup>	5V	-40 to +85	6	x8/x16	TSOP48	Lead-free
	M29F800FT/B5AM6	M29F <sup>1</sup>	5V	-40 to +85	6	x8/x16	SO44	Lead-free
	M29W800FT/FB70N3	M29W	3V	-40 to +125	3	x8/x16	TSOP48	Lead-free
	M29W800FB7AN6	M29W	3V	-40 to +85	6	x8/x16	TSOP48	Lead-free
	M29W800FT/FB70ZA3	M29W	3V	-40 to +125	3	x8/x16	TFBGA48	Lead-free
16 Mb	M29W160ET/B70N3	M29W	3V	-40 to +125	3	x8/x16	TSOP48	Lead-free
	M29W160ET/B7AN6	M29W	3V	-40 to +85	6	x8/x16	TSOP48	Lead-free
	M29F160FT/B55N3	M29F <sup>1</sup>	5V	-40 to +125	3	x8/x16	TSOP48	Lead-free
	M29F160FT/B5AN6	M29F <sup>1</sup>	5V	-40 to +85	6	x8/x16	TSOP48	Lead-free

<sup>1</sup>Numonyx® Axcell™ M29F Automotive grade 6 is also offered for industrial applications

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Numonyx® NOR flash for automotive applications



Density	Part Number	Product Family	Voltage Supply	Temperature Range (°C)	Temperature Range (Code)	Bus Width	Package Type	Package Options
32 Mb	M29W320DT/B70N3	M29W	3V	-40 to +125	3	x8/x16	TSOP48	Lead-free
	M29W320DT/B7AN6	M29W	3V	-40 to +85	6	x8/x16	TSOP48	Lead-free
	M29W320DB80ZA3E	M29W	3V	-40 to +125	3	x8/x16	BGA48	Lead-free
	M29W320DB7AZA6F	M29W	3V	-40 to +125	3	x8/x16	BGA48	Lead-free
	M29W320DB7AZA3F	M29W	3V	-40 to +125		x8/x16	BGA48	Lead-free
64 Mb	M29W640GT/B70N3	M29W	3V	-40 to +125	3	x8/x16	TSOP48	Lead-free
	M29W640GB6AZA6	M29W	3V	-40 to +85	6	x8/x16	TFBGA48	Lead-free
	M29W640GB70ZA3	M29W	3V	-40 to +125	3	x8/x16	TFBGA48	Lead-free
	M29W064FB/T6AZA6	M29W	3V	-40 to +85	6	x8/x16	TFBGA48	Lead-free
	M29W064FT/B70N3	M29W	3V	-40 to +125	3	x8/x16	TSOP48	Lead-free
	M29W640GL/H7ANB6	M29W	3V	-40 to +85	6	x8/x16	TSOP56	Lead-free
	M29W640GT/B7AN6	M29W	3V	-40 to +85	6	x8/x16	TSOP48	Lead-free
	M29W064FT/B7AN6	M29W	3V	-40 to +85	6	x8/x16	TSOP48	Lead-free
128 Mb	M29W128GH/L6AZA6	M29W	3V	-40 to +85	6	x8/x16	TFBGA48	Lead-free
	M29W128GH/L70ZA3	M29W	3V	-40 to +125	3	x8/x16	TFBGA48	Lead-free
	M29W128GH/L6AN6	M29W	3V	-40 to +85	6	x8/x16	TSOP56	Lead-free
	M29W128GH/L70N3	M29W	3V	-40 to +125	3	x8/x16	TSOP56	Lead-free
	M29W128GH/L70ZS3E	M29W	3V	-40 to +125	3	x8/x16	BGA48 (11x13mm)	Lead-free
256 Mb	M29W256GH/L7AN6	M29W	3V	-40 to +85	6	x8/x16	TSOP56	Lead-free
	M29W256GH/L7AZA6	M29W	3V	-40 to +85	6	x8/x16	TFBGA64	Lead-free
	M29W256GH/L7AZS6	M29W	3V	-40 to +85	6	x8/x16	BGA48 (11x13mm)	Lead-free

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Numonyx® NOR flash for automotive applications



**M58BW BURST MODE**

Density	Part Number	Product Family	Voltage Supply	Temperature Range (°C)	Temperature Range (Code)	Bus Width	Package Type	Package Options
16 Mb	M58BW016FB7T3	M58BW Burst	3V	-40 to +125	3	x32	PQFP80	Leaded and lead-free
	M58BW016FB7ZA3	M58BW Burst	3V	-40 to +125	3	x32	LBGA80	Leaded and lead-free
	M58BW16FB4T3	M58BW Burst	3V	-40 to +125	3	x32	PQFP80	Leaded and lead-free
	M58BW16FB4ZA3	M58BW Burst	3V	-40 to +125	3	x32	LBGA80	Leaded and lead-free
	M58BW16FB5T3	M58BW Burst	3V	-40 to +125	3	x32	PQFP80	Leaded and lead-free
	M58BW16FB5ZA3	M58BW Burst	3V	-40 to +125	3	x32	LBGA80	Leaded and lead-free
	M58BW16FB4D150	M58BW Burst	3V	-40 to +125	3	x32	KGD	
32 Mb	M58BW32FB4T3	M58BW Burst	3V	-40 to +125	3	x32	PQFP80	Leaded and lead-free
	M58BW32FB4ZA3	M58BW Burst	3V	-40 to +125	3	x32	LBGA80	Leaded and lead-free
	M58BW32FB5T3	M58BW Burst	3V	-40 to +125	3	x32	PQFP80	Leaded and lead-free
	M58BW32FB5ZA3	M58BW Burst	3V	-40 to +125	3	x32	LBGA80	Leaded and lead-free
	M58BW32FB4D150	M58BW Burst	3V	-40 to +125	3	x32	KGD	

**M58WR MULTIPLE BANK, BURST MODE**

Density	Part Number	Product Family	Voltage Supply	Temperature Range (°C)	Temperature Range (Code)	Bus Width	Package Type	Package Options
32 Mb	M58WR032KB7AZB6	M58WR Multiple bank	1.8V	-40 to +85	6	x16	VFBGA56	Leaded and lead-free
64 Mb	M58WR064KB/T7AZB6	M58WR Multiple bank	1.8V	-40 to +85	6	x16	VFBGA56	Leaded and lead-free

**FORTÉ M25P SERIAL FLASH, SECTOR ERASE**

Density	Part Number	Product Family	Voltage Supply	Temperature Range (°C)	Temperature Range (Code)	Bus Width	Package Type	Package Options
1 Mb	M25P10-AVMN3P/Y	M25P	3V	-40 to +125	3	x1	SO8N	Lead-free
	M25P10-AVMN6PYA	M25P	3V	-40 to +85	6	x1	SO8N	Lead-free

product line card

Numonyx® NOR flash for automotive applications



Density	Part Number	Product Family	Voltage Supply	Temperature Range (°C)	Temperature Range (Code)	Bus Width	Package Type	Package Options
2 Mb	M25P20-VMN3PB	M25P	3V	-40 to +125	3	x1	SO8N	Lead-free
	M25P20-VMN6PBA	M25P	3V	-40 to +85	6	x1	SO8N	Lead-free
4 Mb	M25P40-VMN3PB	M25P	3V	-40 to +125	3	x1	SO8N	Lead-free
	M25P40-VMN6PBA	M25P	3V	-40 to +85	6	x1	SO8N	Lead-free
8 Mb	M25P80VMN3PB	M25P	3V	-40 to +125	3	x1	SO8N	Lead-free
	M25P80VMN6PBA	M25P	3V	-40 to +85	6	x1	SO8N	Lead-free
	M25P80-VMF6GBA	M25P	3V	-40 to +85	6	x1	MLP8	Lead-free
16 Mb	M25P16-VMN3PB	M25P	3V	-40 to +125	3	x1	SO8N	Lead-free
	M25P16-VMN6PBA	M25P	3V	-40 to +85	6	x1	SO8N	Lead-free
	M25P16-VMF6PBA	M25P	3V	-40 to +85	6	x1	SO16W	Lead-free
32 Mb	M25P32-VMW3GB	M25P	3V	-40 to +125	3	x1	SO8W	Lead-free
	M25P32-VMW6GBA	M25P	3V	-40 to +85	6	x1	SO8W	Lead-free
	M25P32-VMF3PB	M25P	3V	-40 to +125	3	x1	SO16W	Lead-free
	M25P32-VMF6PBA	M25P	3V	-40 to +85		x1	SO16W	Lead-free
64 Mb	M25P64-VMF3PB	M25P	3V	-40 to +125	3	x1	SO16W	Lead-free
	M25P64-VMF6PBA	M25P	3V	-40 to +85	6	x1	SO16W	Lead-free

**FORTÉ M25PX SERIAL FLASH, SECTOR ERASE, MULTI I/O**

Density	Part Number	Product Family	Voltage Supply	Temperature Range (°C)	Temperature Range (Code)	Bus Width	Package Type	Package Options
8 Mb	M25PX80-VMN6PBA	M25PX	3V	-40 to +85	6	x1	SO8N	Lead-free
16 Mb	M25PX16-VMN6PBA	M25PX	3V	-40 to +85	6	x1	SO8N	Lead-free
32 Mb	M25PX32-VMW3EB	M25PX	3V	-40 to +125	3	x1	SO8W	Lead-free
	M25PX32-VMF3EB	M25PX	3V	-40 to +125	3	x1	SO16W	Lead-free
64 Mb	M25PX64-VMF3PB	M25PX	3V	-40 to +125	3	x1	SO16W	Lead-free
	M25PX64-VMF6PBA	M25PX	3V	-40 to +85	6	x1	SO16W	Lead-free

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Numonyx® NOR flash for automotive applications



**PORTÉ N25Q SERIALFLASH, SECTOR, SUB-SECTOR ERASE, MULTIPLE I/O**

Density	Part Number	Product Family	Voltage Supply	Temperature Range (°C)	Temperature Range (Code)	Bus Width	Package Type	Package Options
128 Mb	N25Q128A13B12H0	N25Q128	3V	-40 to +85	6	x1	S016W	Lead-free

**N U M O N Y X ® NAND SLC SOLUTIONS**

Density	Part Number	Product Family	Voltage Supply	Temperature Range (°C)	Temperature Range (Code)	Bus Width	Package Type	Package Options
128 Mb	NAND128W3AABN6	NAND SLC SP	3V	-40 to +85	6	x8	TSOP48	Lead-free
256 Mb	NAND256W3AABN6	NAND SLC SP	3V	-40 to +85	6	x8	TSOP48	Lead-free
2 GB	NAND02GR3BADZA6	NAND SLC SP	3V	-40 to +85	6	x8	VFBGA63	Lead-free

**N U M O N Y X ® eMMC™ SOLUTIONS\***

Density	Part Number	Product Family	Voltage Supply	Temperature Range (°C)	Temperature Range (Code)	Bus Width	Package Type	Package Options
2 GB	NAND16GAHAPZO6E	eMMC*	3V	-40 to +85	6	x8	BGA100	Lead-free
4 GB	NAND32GAHAKZO6E	eMMC*	3V	-40 to +85	6	x8	BGA100	Lead-free

\* Numonyx eMMC\* solutions for Automotive are in line with key requirements of AEC-Q100 quality standards\*Other names and brands may be claimed as the property of others.

All Numonyx® Flash memory devices for Automotive are offered in both Tray and Tape & Reel option

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