

MACRONIX

PART NUMBER SELECTION GUIDE



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MACRONIX Serial NOR Flash

Density	Voltage	Product Status[1]	Part Number	Organization 4 (KB)	Organization 32 (KB)	Organization 64 (KB)	Bus Width	DTR	SFDP Mode	HOLD Pin	RESET Pin[2]	Security Feature	Note	Package	KGD
OctaFlash															
128Mb	3V	➔	MX25LM12845G	•		•	x1, x8	•	•		•		7	16-SOP, 24-TFBGA	
	1.8V	➔	MX25UM12845G	•		•	x1, x8	•	•		•		7	16-SOP, 24-TFBGA	
256Mb	3V	➔	MX25LM25645G	•		•	x1, x8	•	•		•		7	16-SOP, 24-TFBGA	
	1.8V	➔	MX25UM25645G	•		•	x1, x8	•	•		•		7	16-SOP, 24-TFBGA	
512Mb	3V	➔	MX25LM51245G	•		•	x1, x8	•	•		•		7	16-SOP, 24-TFBGA	•
	1.8V	➔	MX25UM51245G	•		•	x1, x8	•	•		•		7	16-SOP, 24-TFBGA	
1Gb	3V	➔	MX66LM1G45G	•		•	x1, x8	•	•		•		7	24-TFBGA	
	1.8V	➔	MX66UM1G45G	•		•	x1, x8	•	•		•		7	24-TFBGA	
2Gb	3V	➔	MX66LM2G45G	•		•	x1, x8	•	•		•		7	24-TFBGA	
	1.8V	➔	MX66UM2G45G	•		•	x1, x8	•	•		•		7	24-TFBGA	
Ultra Low Power / Wide Range Vcc Flash															
512Kb	1.65-3.6V	➔	MX25R512F	•	•	•	x1, x2, x4		•	•	•		7,12,14	8-SOP / TSSOP / USON, WLCSP	
1Mb		➔	MX25R1035F	•	•	•	x1, x2, x4		•	•	•		7,12,14	8-SOP / TSSOP / USON, WLCSP	
2Mb		➔	MX25R2035F	•	•	•	x1, x2, x4		•	•	•		7,12,14	8-SOP / TSSOP / USON, WLCSP	•
4Mb		➔	MX25R4035F	•	•	•	x1, x2, x4		•	•	•		7,12,14	8-SOP / USON / WSON, WLCSP	•
8Mb		➔	MX25R8035F	•	•	•	x1, x2, x4		•	•	•		7,12,14	8-SOP / USON / WSON, WLCSP	•
16Mb		➔	MX25R1635F	•	•	•	x1, x2, x4		•	•	•		7,12,14	8-SOP / USON / WSON, WLCSP	•
32Mb		➔	MX25R3235F	•	•	•	x1, x2, x4		•	•	•		7,12,14	8-SOP / WSON / USON, WLCSP	•
64Mb		➔	MX25R6435F	•	•	•	x1, x2, x4		•	•	•		7,12,14	8-SOP / WSON / USON, WLCSP	•
Serial NOR Flash I-Grade (-40°C to 85°C)															
512Kb	3V		MX25L512E	•		•	x1, x2		•	•				8-SOP / TSSOP / USON	•
			MX25L5121E	•		•	x1						5,10	8-SOP / TSSOP / USON	•
	2.5V		MX25V512E	•		•	x1, x2			•				8-SOP / TSSOP / USON	•
		➔	MX25V512F	•	•	•	x1, x2, x4		•	•			7	8-SOP / USON	•
	1.8V	➔	MX25U5121E	•		•	x1, x2, x4			•				8-SOP / TSSOP / USON	•
1Mb	3V		MX25L1006E	•		•	x1, x2		•	•				8-SOP / USON, WLCSP	•
			MX25L1021E	•		•	x1						5,10	8-SOP	•
			MX25L1026E	•		•	x1, x2		•	•			10	8-SOP	
	2.5V		MX25V1006E	•		•	x1, x2			•				8-SOP / TSSOP / USON	•
		➔	MX25V1006F	•	•	•	x1, x2							8-SOP / TSSOP / USON	•
		➔	MX25V1035F	•	•	•	x1, x2, x4		•	•			7	8-SOP / USON	•
	1.8V	➔	MX25U1001E	•		•	x1, x2, x4			•				8-SOP / TSSOP / USON	•
2Mb	3V		MX25L2006E	•		•	x1, x2		•	•				8-SOP / WSON / USON	•
			MX25L2026E	•		•	x1, x2		•	•			10	8-SOP	
	2.5V		MX25V2006E	•		•	x1, x2		•	•				8-SOP / VSOP / WSON / USON	•
		➔	MX25V2033F	•	•	•	x1, x2, x4		•	•			7	8-SOP	•
			MX25V2035F	•	•	•	x1, x2, x4		•	•			7	8-SOP / WSON / USON	•
	1.8V	➔	MX25U2033E	•	•	•	x1, x2, x4		•	•				8-SOP / WSON / USON, WLCSP	•
			MX25U2035F	•	•	•	x1, x2, x4		•	•			7	8-USON	
4Mb	3V		MX25L4006E	•		•	x1, x2		•	•				8-PDIP / SOP / WSON / USON	•
			MX25L4026E	•		•	x1, x2		•	•				8-SOP	
	2.5V		MX25V4006E	•		•	x1, x2		•	•				8-SOP / VSOP / WSON / USON	•
		➔	MX25V4035F	•	•	•	x1, x2, x4		•	•			7	8-SOP / WSON / USON	•
	1.8V	➔	MX25U4033E	•	•	•	x1, x2, x4		•	•				8-SOP / WSON / USON, WLCSP	•
			MX25U4035F	•	•	•	x1, x2, x4		•	•			7	8-USON	•
8Mb	3V		MX25L8006E	•		•	x1, x2		•	•				8-PDIP / SOP / WSON / USON	•
			MX25L8036E	•		•	x1, x2, x4							8-SOP	
			MX25L8073E	•		•	x1, x2, x4		•				9	8-SOP	
	2.5V		MX25V8006E	•		•	x1, x2		•	•				8-SOP / WSON	•
		➔	MX25V8035F	•	•	•	x1, x2, x4		•	•			7	8-SOP / WSON / USON	•
	1.8V	➔	MX25U8033E	•	•	•	x1, x2, x4		•	•				8-SOP / WSON / USON, WLCSP	•
			MX25U8035F	•	•	•	x1, x2, x4		•	•			7	8-USON	•
16Mb	3V		MX25L1606E	•		•	x1, x2		•	•				8-PDIP / SOP / WSON / USON, 16-SOP, 24-TFBGA	•
			MX25L1633E	•		•	x1, x2, x4							8-SOP / WSON / USON	•
			MX25L1636E	•		•	x1, x2, x4							8-SOP	
			MX25L1655D	•		•	x1, x2, x4					•		8-SOP, 24-TFBGA	
			MX25L1673E	•		•	x1, x2, x4		•				9	8-SOP / WSON	
	2.5V	➔	MX25V1635F	•	•	•	x1, x2, x4		•	•			7	8-SOP / WSON / USON, 16-SOP, 24-TFBGA,	•
	1.8V		MX25U1633F	•	•	•	x1, x2, x4		•	•			7	8-USON	•
		➔	MX25U1635F	•	•	•	x1, x2, x4		•		•		7	8-SOP / WSON / USON, WLCSP	•
32Mb	3V		MX25L3206E	•		•	x1, x2		•	•				8-SOP / WSON / USON, 24-TFBGA	
		➔	MX25L3233F	•	•	•	x1, x2, x4		•	•			7	8-SOP / WSON / USON, 16-SOP	•
			MX25L3236F	•	•	•	x1, x2, x4		•	•			7	8-SOP	
			MX25L3255E	•	•	•	x1, x2, x4		•	•				8-SOP, 24-TFBGA	•
			MX25L3273F	•	•	•	x1, x2, x4		•	•			7,9	8-SOP	
	1.8V	➔	MX25U3235F	•	•	•	x1, x2, x4		•		•		7	8-SOP / WSON / USON / XSON, WLCSP	•
			MX25U3273F	•	•	•	x1, x2, x4		•				7,9	8-SOP	

Notes: For further product details and specifications, please refer to the respective datasheets.

1. ➔ Primary product for promotion.
   A Advance Information
   Blank Product is available for custom applications or special markets.
2. RESET pin may not be available for all package options.
3. OTP area pre-programmed at the factory.
4. 3- and 4-Byte addressing.
5. Commercial temperature only.
6. 4-Byte addressing only, with legacy commands.
7. Suspend/Resume function added.
8. Wireless temperature range.
9. Quad Mode enabled at factory (QE Bit=1).
10. Volatile Block Protect (BP) bits.
11. Extended Temperature (-55°C to 125°C)
12. Ultra low Power Mode and High Performance Mode support (Default Mode by option.)
13. N grade=Industrial plus plus (-40°C to 105°C).
14. RESET# and HOLD# depends on part number options.

Package Type	WLCSP	8-PDIP	8-SOP	8-SOP	8-VSOP	8-VSOP	8-TSSOP	8-WSON	8-WSON	8-USON	8-USON	8-USON	8-XSON	16-SOP	24-TFBGA	24-TFBGA
Package Size (mm)		300mil	150mil	200mil	150mil	200mil	173mil	6x5	8x6	2x3	4x3	4x4	4x4	300mil	4x6 grid	5x5 grid

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MACRONIX Serial NOR Flash

Density	Voltage	Product Status[1]	Part Number	Organization 4 (KB)	Organization 32 (KB)	Organization 64 (KB)	Bus Width	DTR	SFDP Mode	HOLD Pin	RESET Pin[2]	Security Feature	Note	Package	KGD
Serial NOR Flash I-Grade (-40°C to 85°C)															
64Mb	3V		MX25L6406E	•	•	•	x1, x2		•					8-SOP/ VSOP / WSON / USON, 24-TFBGA	
		➔	MX25L6433F	•	•	•	x1, x2, x4		•	•			7	8-SOP / WSON, 16-SOP, 24-TFBGA	•
			MX25L6435E	•	•	•	x1, x2, x4		•	•				8-SOP / WSON, 16-SOP, 24-TFBGA	
			MX25L6436F	•	•	•	x1, x2, x4		•	•			7	8-SOP	
			MX25L6439E	•	•	•	x1, x4		•	•			7	8-VSOP	
			MX25L6450F	•	•	•	x1, x2, x4		•				9	8-PDIP / SOP / WSON	
			MX25L6456E	•	•	•	x1, x2, x4		•	•		•	7	8-SOP, 24-TFBGA	•
			MX25L6473E	•	•	•	x1, x2, x4		•				9	8-SOP / VSOP / WSON, WLCSP	
			MX25L6473F	•	•	•	x1, x2, x4		•	•			7,9	8-SOP / WSON	
	1.8V	➔	MX25U6435F	•	•	•	x1, x2, x4		•		•		7	8-SOP / WSON, WLCSP	•
			MX25U6473F	•	•	•	x1, x2, x4		•				7,9	8-SOP	
128Mb	3V	➔	MX25L12835F	•	•	•	x1, x2, x4		•		•		7	8-SOP / WSON, 16-SOP	•
			MX25L12839F	•	•	•	x1, x4		•		•		7,8	8-WSON	
			MX25L12845G	•	•	•	x1, x2, x4	•	•		•		7	8-SOP / WSON, 16-SOP, 24-TFBGA	
			MX25L12850F	•	•	•	x1, x2, x4		•				7,9	8-PDIP / SOP / WSON	
			MX25L12855F	•	•	•	x1, x2, x4		•		•	•	7	16-SOP, 24-TFBGA	
			MX25L12865F	•	•	•	x1, x2, x4		•	•	•		7	16-SOP	
			MX25L12873F	•	•	•	x1, x2, x4		•				7,9	8-SOP / WSON, 16-SOP	
		➔	MX25L12873G	•	•	•	x1, x2, x4	•	•		•		7	8-SOP / WSON, 16-SOP	
	1.8V	➔	MX25U12835F	•	•	•	x1, x2, x4		•		•		7	8-SOP / WSON, 16-SOP, WLCSP	•
			MX25U12873F	•	•	•	x1, x2, x4		•				7,9	8-SOP / WSON	
256Mb	3V		MX25L25635F	•	•	•	x1, x2, x4		•		•		4,7	8-WSON, 16-SOP, 24-TFBGA	•
			MX25L25639F	•	•	•	x1, x4		•		•		4,7,8	8-WSON	
		➔	MX25L25645G	•	•	•	x1, x2, x4	•	•		•		4,7	8-SOP / WSON, 16-SOP, 24-TFBGA	•
			MX25L25655F	•	•	•	x1, x2, x4		•		•	•	4,7	16-SOP, 24-TFBGA	
		➔	MX25L25673G	•	•	•	x1, x2, x4	•	•		•		4,7	8-SOP / WSON, 16-SOP	
			MX25L25735F	•	•	•	x1, x2, x4		•	•			6,7	8-WSON, 16-SOP	
	1.8V		MX25U25635F	•	•	•	x1, x2, x4		•		•		4,7	8-WSON, 16-SOP, 24-TFBGA, WLCSP	
			MX25U25645G	•	•	•	x1, x2, x4	•	•		•		4,7	8-WSON, 16-SOP, 24-TFBGA	
512Mb	3V		MX25L51237G	•	•	•	x1, x2, x4	•			•		4,7	16-SOP	
		➔	MX25L51245G	•	•	•	x1, x2, x4	•	•		•		4,7	8-WSON, 16-SOP, 24-TFBGA	•
			MX25L51255G	•	•	•	x1, x2, x4	•	•		•	•	4,7	16-SOP, 24-TFBGA	
			MX66L51235F	•	•	•	x1, x2, x4		•		•		4,7	8-WSON, 16-SOP, 24-TFBGA	
			MX66L51255F	•	•	•	x1, x2, x4		•		•	•	4,7	16-SOP, 24-TFBGA	
	1.8V		MX25U51245G	•	•	•	x1, x2, x4	•	•		•		4,7	8-WSON, 16-SOP, 24-TFBGA, WLCSP	•
			MX66U51235F	•	•	•	x1, x2, x4		•		•		4,7	8-WSON, 16-SOP, 24-TFBGA	
1Gb	3V		MX66L1G37G	•	•	•	x1, x2, x4	•	•		•		4,7	16-SOP	
		➔	MX66L1G45G	•	•	•	x1, x2, x4	•	•		•		4,7	16-SOP, 24-TFBGA	
			MX66L1G55G	•	•	•	x1, x2, x4	•	•		•	•	4,7	16-SOP, 24-TFBGA	
			MX66L1G85G	•	•	•	x1, x2, x4	•	•		•		4,7	24-TFBGA	
	1.8V		MX66U1G45G	•	•	•	x1, x2, x4	•	•		•		4,7	16-SOP, 24-TFBGA	
2Gb	3V		MX66L2G45G	•	•	•	x1, x2, x4	•	•		•		4,7	24-TFBGA	•
	1.8V		MX66U2G45G	•	•	•	x1, x2, x4	•	•		•		4,7	24-TFBGA	
Serial NOR Flash J-Grade (-40°C to 105°C)															
1Mb	3V		MX25L1006E	•		•	x1, x2		•	•					•
4Mb	2.5V		MX25V4006E	•		•	x1, x2		•	•				8-SOP	
			MX25V4035F	•	•	•	x1, x2, x4		•	•			7		•
8Mb	3V		MX25L8006E	•		•	x1, x2		•	•				8-SOP	•
	1.65-3.6V		MX25R8035F	•	•	•	x1, x2, x4		•	•	•		7,12,14	8-SOP	•
16Mb	3V		MX25L1606E	•		•	x1, x2		•	•				8-USON / SOP	
	2.5V		MX25V1635F	•	•	•	x1, x2, x4		•	•				8-USON	
32Mb	3V		MX25L3233F	•	•	•	x1, x2, x4		•	•			7	8-SOP	
			MX25L3235E	•	•	•	x1, x2, x4		•	•				24-TFBGA	
			MX25L3255E	•	•	•	x1, x2, x4		•	•		•		24-TFBGA	
	1.65-3.6V		MX25R3235F	•	•	•	x1, x2, x4		•	•	•		7,12,14	8-USON	
64Mb	3V		MX25L6433F	•	•	•	x1, x2, x4		•	•			7	8-SOP, 16-SOP	
			MX25L6435E	•	•	•	x1, x2, x4		•	•				8-SOP	
			MX25L6456F	•	•	•	x1, x2, x4		•	•			7	24-TFBGA	
	1.65-3.6V		MX25R6435F	•	•	•	x1, x2, x4		•	•	•		7,12,14	8-SOP	
128Mb	3V		MX25L12835F	•	•	•	x1, x2, x4		•		•		7	8-SOP / WSON, 16-SOP	
			MX25L12845G	•	•	•	x1, x2, x4	•	•		•		7	24-TFBGA	
	1.8V		MX25U12835F	•	•	•	x1, x2, x4		•		•		7	8-SOP / WSON	
			MX25U12835F	•	•	•	x1, x2, x4		•		•		7,13	16-SOP	
256Mb	3V		MX25L25635F	•	•	•	x1, x2, x4		•		•		4,7	16-SOP, 24-TFBGA	
			MX25L25655F	•	•	•	x1, x2, x4		•		•	•	4,7	24-TFBGA	
512Mb	3V		MX66L51235F	•	•	•	x1, x2, x4		•		•		4,7	16-SOP	
			MX25L51245G	•	•	•	x1, x2, x4	•	•		•		4,7	16-SOP, 24-TFBGA	
1Gb	3V		MX66L1G45G	•	•	•	x1, x2, x4	•	•		•		4,7	24-TFBGA	
	1.8V	A	MX66U1G45G	•	•	•	x1, x2, x4	•	•		•		4,7	16-SOP	
			MX66U1G45G	•	•	•	x1, x2, x4	•	•		•		4,7	24-TFBGA	
Serial NOR Flash K-Grade (-40°C to 125°C)															
512Kb	3V		MX25L512E	•		•	x1, x2			•					•
2Mb	3V		MX25L2006E	•		•	x1, x2		•	•				8-USON	
	2.5V		MX25V2006E	•		•	x1, x2		•	•					•
4Mb	3V		MX25L4006E	•		•	x1, x2		•	•				8-SOP / USON	
	2.5V		MX25V4006E	•		•	x1, x2			•					•
8Mb	3V		MX25L8006E	•		•	x1, x2		•	•				8-USON	
32Mb	3V		MX25L3235E	•	•	•	x1, x2, x4		•	•				8-SOP	
64Mb	3V		MX25R6435F	•	•	•	x1, x2, x4		•	•	•		7,12,14	8-SOP	
256Mb	3V		MX25L25635F	•	•	•	x1, x2, x4		•		•		4,7	8-WSON	
512Mb	1.8V		MX66U51235F	•	•	•	x1, x2, x4		•		•		4,7,11	16-SOP	

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4. 3- and 4-Byte addressing.
5. Commercial temperature only.
6. 4-Byte addressing only, with legacy commands.
7. Suspend/Resume function added.
8. Wireless temperature range.
9. Quad Mode enabled at factory (QE Bit=1).
10. Volatile Block Protect (BP) bits.
11. Extended Temperature (-55°C to 125°C)
12. Ultra low Power Mode and High Performance Mode support (Default Mode by option.)
13. N grade=Industrial plus plus (-40°C to 105°C).
14. RESET# and HOLD# depends on part number options.

Package Type	WLCSP	8-PDIP	8-SOP	8-SOP	8-VSOP	8-VSOP	8-TSSOP	8-WSON	8-WSON	8-USON	8-USON	8-USON	8-XSON	16-SOP	24-TFBGA	24-TFBGA
Package Size (mm)		300mil	150mil	200mil	150mil	200mil	173mil	6x5	8x6	2x3	4x3	4x4	4x4	300mil	4x6 grid	5x5 grid

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MACRONIX Parallel NOR Flash

Density	Voltage	Product Status[1]	Part Number	Organization x8	Organization x16	Sector Unif.	Sector Boot	Read Speed (ns)				WP#/ ACC	Advanced Sector Protection	Advanced Security[2]	Note	Package	KGD
Parallel NOR Flash I-Grade (-40°C to 85°C)																	
2Mb	5V	●	MX29F200C	•	•		•	70	90							44-SOP, 48-TSOP	
4Mb	5V		MX29F040C	•		•		70	90							32-PLCC / TSOP	•
		●	MX29F400C	•	•		•	70	90							44-SOP, 48-TSOP	
	3V		MX29LV040C	•		•		55Q	70	90					4	32-PLCC / TSOP	
		●	MX29LV400C	•	•		•	55Q	70	90					4	44-SOP, 48-TSOP / LFBGA / TFBGA / WFBGA / XFLGA	•
	1.8V		MX29SL402C	•	•		•	90								48-TSOP / LFBGA / TFBGA / WFBGA / XFLGA	•
8Mb	5V		MX29F800C	•	•		•	70								44-SOP, 48-TSOP / LFBGA	
	3V	●	MX29LV800C	•	•		•	45Q	55Q	70	90					44-SOP, 48-TSOP / LFBGA / TFBGA / WFBGA / XFLGA	•
	1.8V		MX29SL800C	•	•		•	90								48-TSOP / LFBGA / TFBGA / XFLGA	
			MX29SL802C	•	•		•	90								48-WFBGA	
16Mb	3V	●	MX29LV160D	•	•		•	70				•				48-TSOP / LFBGA / TFBGA / WFBGA / XFLGA	•
32Mb	3V		MX29GA320E/321E	•	•	•		70				•	•	•		64-FBGA / LFBGA	
			MX29GL320E T/B	•	•		•	70				•	•			48-TSOP / LFBGA	
			MX29GL320E H/L	•	•	•		70				•	•			56-TSOP, 64-LFBGA	•
			MX29LA320E	•	•	•		70				•		•		64-FBGA	•
		●	MX29LV320E	•	•		•	70				•				44-SOP, 48-TSOP / LFBGA / TFBGA	•
	1.8V		MX29NS320E		•		•	80							5	56-TFBGA	
64Mb	3V		MX29GA640E/641E	•	•	•		70	90			•	•	•		64-FBGA / LFBGA	
			MX29GL640E T/B	•	•		•	70				•	•			48-TSOP / LFBGA	•
			MX29GL640E H/L	•	•	•		70				•	•			56-TSOP, 64-LFBGA	•
			MX29LA640E	•	•	•		70				•		•		64-FBGA	•
		●	MX29LV640E	•	•		•	70				•				48-TSOP / LFBGA	•
	1.8V		MX29NS640E		•		•	80							5	56-TFBGA	
128Mb	3V		MX29GA128F/129F	•	•	•		90				•	•	•		64-FBGA / LFBGA	
		●	MX29GL128F	•	•	•		70	90	110		•	•		3	56-TSOP / FBGA, 64-LFBGA, 70-SSOP	•
	1.8V		MX29NS128E		•		•	80							5	56-TFBGA	
			MX29VS128F		•		•	80							6	56-TFBGA	•
256Mb	3V		MX29GA256F/257F	•	•	•		90	100			•	•	•		64-FBGA / LFBGA	•
		●	MX29GL256F	•	•	•		70Q	90Q	100	110	•	•		3	56-TSOP / FBGA, 64-LFBGA, 70-SSOP	•
512Mb	3V		MX29GA512F	•	•	•		100	110			•	•	•		64-LFBGA	
			MX29GL512F	•	•	•		100	110	120		•	•		3	56-TSOP / FBGA, 64-LFBGA, 70-SSOP	
		●	MX29GL512G	•	•	•		100	110			•	•		3	56-TSOP, 64-LFBGA	
1Gb	3V		MX68GA1G0F	•	•	•		110				•	•	•		64-LFBGA	
			MX68GL1G0F	•	•	•		110	120			•	•		3	56-TSOP, 64-LFBGA, 70-SSOP	
		●	MX68GL1G0G	•	•	•		100				•	•		3	56-TSOP	
2Gb	3V		MX68GL2G0F	•	•	•		120				•	•		3	70-SSOP	
Parallel NOR Flash J-Grade (-40°C to 105°C)																	
512Mb	3V		MX29GL512F	•	•	•		120				•	•			56-TSOP	
1Gb	3V		MX68GL1G0F	•	•	•		120				•	•			56-TSOP	

Notes : For further product details and specifications, please refer to the respective datasheets.

1. ● Primary product for promotion.
   Blank Product is available for custom applications or special markets.
2. Advanced Security indicates that a portion of memory may be permanently locked by user.
3. VIO=1.65-3.6V option available.
4. 45Q and/or 55Q = Restricted Vcc (3.0-3.6V)
5. Burst Read capable.
6. Multi Bank, Read While Write, Multiplexed, Burst Read capable.

Package Type	32-PLCC	32-TSOP	32-TSOP	44-SOP	48-TSOP	48-TFBGA	48-TFBGA	48-LFBGA	48-WFBGA	48-XFLGA	56-TSOP	56-FBGA	56-TFBGA	64-FBGA	64-LFBGA	70-SSOP
Package Size (mm)		8x20	8x14	500mil	12x20	6x8x1.2	6x8x1.2	6x8x1.3	4x6x0.75	4x6x0.5	14x20	7x9x1.2	7.7x6.2x1.2	10x13x1.2	11x13x1.4	16x58.5
Ball Size (mm)						0.30	0.40	0.40	0.30	0.25		0.40	0.30	0.40	0.60	
Ball Pitch (mm)						0.80	0.80	0.80	0.50	0.50		0.80	0.50	1.00	1.00	

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MACRONIX NAND Flash

SLC NAND Flash I-Grade (-40°C to 85°C)

Density	Voltage	Product Status[1]	Part Number	Tech. Node	Organization		Page Size	Read Speed		ECC Mode	ONFI	P/E Cycles	Cache Read	WP# Pin	Secure Feature		Package	KGD
					x8	x16	2KB	Latency	Seq. Read						Block Protection	Permanent Block Lock		
512Mb	3V		MX30LF1208AA	75nm	•		•	25µs	30ns	1-bit	n/a	100K	•	•			48-TSOP, 63-VFBGA	•
1Gb	3V		MX30LF1G08AA	75nm	•		•	25µs	30ns	1-bit	n/a	100K	•	•			48-TSOP, 63-VFBGA	•
		➲	MX30LF1G18AC	36nm	•		•	25µs	20ns	4-bit	•	100K	•	•	•		48-TSOP, 63-VFBGA	•
			MX30LF1G18SC	36nm	•		•	25µs	20ns	4-bit	•	100K	•	•	•	•	63-VFBGA	
			MX30LF1G28AC	36nm	•		•	25µs	20ns	8-bit	•	100K	•	•	•		63-VFBGA	
			MX30LF1G28SC	36nm	•		•	25µs	20ns	8-bit	•	100K	•	•	•	•	63-VFBGA	
			MX30LF1GE8AB	36nm	•		•	70µs	20ns	ECC-free	•	100K		•			48-TSOP / VFBGA, 63-VFBGA	
	1.8V		MX30UF1G16AC	36nm		•	•	25µs	25ns	4-bit	•	100K	•	•	•		48-VFBGA, 63-VFBGA	
		➲	MX30UF1G18AC	36nm	•		•	25µs	25ns	4-bit	•	100K	•	•	•		48-TSOP / VFBGA, 63-VFBGA	
2Gb	3V	➲	MX30LF2G18AC	36nm	•		•	25µs	20ns	4-bit	•	100K	•	•	•		48-TSOP, 63-VFBGA	•
			MX30LF2G18SC	36nm	•		•	25µs	20ns	4-bit	•	100K	•	•	•	•	63-VFBGA	
			MX30LF2G28AC	36nm	•		•	25µs	20ns	8-bit	•	100K	•	•	•		48-TSOP, 63-VFBGA	
			MX30LF2G28SC	36nm	•		•	25µs	20ns	8-bit	•	100K	•	•	•	•	63-VFBGA	
			MX30LF2G28AB	36nm	•		•	25µs	20ns	8-bit	•	100K	•	•			48-TSOP, 63-VFBGA	
			MX30LF2GE8AB	36nm	•		•	70µs	20ns	ECC-free	•	100K		•			48-TSOP, 63-VFBGA	
	1.8V		MX30UF2G16AB	36nm		•	•	25µs	25ns	4-bit	•	100K	•	•	•		63-VFBGA	
			MX30UF2G16AC	36nm		•	•	25µs	25ns	4-bit	•	100K	•	•	•		48-VFBGA	
			MX30UF2G18AB	36nm	•		•	25µs	25ns	4-bit	•	100K	•	•	•		48-TSOP, 63-VFBGA	
		➲	MX30UF2G18AC	36nm	•		•	25µs	25ns	4-bit	•	100K	•	•	•		48-TSOP / VFBGA	
			MX30UF2G26AB	36nm		•	•	25µs	25ns	8-bit	•	100K	•	•	•		63-VFBGA	
			MX30UF2G28AB	36nm	•		•	25µs	25ns	8-bit	•	100K	•	•	•		48-TSOP, 63-VFBGA	
			MX30UF2GE8AB	36nm	•		•	70µs	25ns	ECC-free	•	100K		•			63-VFBGA	
4Gb	3V	➲	MX30LF4G18AC	36nm	•		•	25µs	20ns	4-bit	•	100K	•	•	•		48-TSOP, 63-VFBGA	•
			MX30LF4G18SC	36nm	•		•	25µs	20ns	4-bit	•	100K	•	•	•	•	63-VFBGA	
			MX30LF4G28AB	36nm	•		•	25µs	20ns	8-bit	•	100K	•	•			48-TSOP, 63-VFBGA	
			MX30LF4G28AC	36nm	•		•	25µs	20ns	8-bit	•	100K	•	•	•		48-TSOP, 63-VFBGA	
			MX30LF4GE8AB	36nm	•		•	70µs	20ns	ECC-free	•	100K		•			48-TSOP	
	1.8V		MX30UF4G16AB	36nm		•	•	25µs	25ns	4-bit	•	100K	•	•	•		63-VFBGA	
		➲	MX30UF4G18AB	36nm	•		•	25µs	25ns	4-bit	•	100K	•	•	•		48-TSOP, 63-VFBGA	
			MX30UF4G26AB	36nm		•	•	25µs	25ns	8-bit	•	100K	•	•	•		63-VFBGA	
			MX30UF4G28AB	36nm	•		•	25µs	25ns	8-bit	•	100K	•	•	•		48-TSOP, 63-VFBGA	
			MX30UF4GE8AB	36nm	•		•	70µs	25ns	ECC-free	•	100K		•			63-VFBGA	
8Gb	3V	➲	MX60LF8G18AC	36nm	•		•	25µs	20ns	4-bit	•	100K	•	•			48-TSOP, 63-VFBGA	
			MX60LF8G28AB	36nm	•		•	25µs	20ns	8-bit	•	100K	•	•			48-TSOP, 63-VFBGA	

SLC NAND Flash J-Grade (-40°C to 105°C)

Density	Voltage	Product Status[1]	Part Number	Tech. Node	Organization		Page Size	Read Speed		ECC Mode	ONFI	P/E Cycles	Cache Read	WP# Pin	Secure Feature		Package	KGD
					x8	x16	2KB	Latency	Seq. Read						Block Protection	Permanent Block Lock		
1Gb	3V		MX30LF1G08AA	75nm	•		•	25µs	30ns	1-bit	n/a	100K	•	•			48-TSOP, 63-VFBGA	•
		➲	MX30LF1G18AC	36nm	•		•	25µs	20ns	4-bit	•	100K	•	•			48-TSOP, 63-VFBGA	•
2Gb	3V	➲	MX30LF2G18AC	36nm	•		•	25µs	20ns	4-bit	•	100K	•	•			48-TSOP, 63-VFBGA	•

Notes: For further product details and specifications, please refer to the respective datasheets.

1. ➲ Primary product for promotion..
   CM Please contact Macronix sales representative for product application.
   Blank Product is available for custom applications or special markets.

Package Type	48-TSOP	48-VFBGA	63-VFBGA
Package Size (mm)	12x20	6x8	9x11

Serial NAND Flash I-Grade (-40°C to 85°C)

Density	Voltage	Product Status[1]	Part Number	Tech. Node	Read Speed per "cmd-addr-data" Bus Width (MHz)[2]			Read Speed	Page Size	ECC Mode	P/E Cycles	WP# Pin	Package
					FREAD 1-1-1	DREAD 1-1-2	QREAD 1-1-4	Latency	2KB				
1Gb	3V		MX35LF1GE4AB	36nm	104	104	104	70µs	•	ECC-free	100K	•	8-WSON
2Gb	3V		MX35LF2GE4AB	36nm	104	104	104	70µs	•	ECC-free	100K	•	16-SOP
		A	MX35LF2G14AC	36nm	104	104	104	25µs	•	4-bit ECC	100K	•	8-WSON

Notes: For further product details and specifications, please refer to the respective datasheets.

1. **Blank** Product is available for custom applications or special markets.
   A Advance Information
2. Read Speeds with maximum number of dummy cycles.

Package Type	8-WSON	16-SOP
Package Size (mm)	8x6	300mil

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MACRONIX NOR-Based MCP

MCP NOR Flash I-Grade (-40°C to 85°C)							
Part Number	Product Type	OctaFlash Density	OctaRAM Density	OctaFlash Bus Width	OctaRAM Bus Width	Voltage	Package
Serial NOR Flash							
MX65L12A64AA	OctaMCP	512Mb	64Mb	x8	x8	3V	6x8mm 24-TFBGA
Part Number	Product Type	NOR Density	pSRAM Density	NOR Bus Width	pSRAM Bus Width	Voltage	Package
Parallel NOR Flash							
MX69GL126F	De-Mux	128Mb	32Mb	x16	x16	3V	7x9mm 56-TFBGA
MX69GL640E	De-Mux	64Mb (Uniform Sector)	32Mb	x16	x16	3V	7x9mm 56-TFBGA
MX69GL642E	De-Mux	64Mb (Top Boot)	32Mb	x16	x16	3V	7x9mm 56-TFBGA
MX69N64E32	AD-Mux	64Mb	32Mb	x16	x16	1.8V	6.2x7.7mm 56-TFBGA
MX69N64E32	AD-Mux	64Mb	32Mb	x16	x16	1.8V	6x6mm 56-TFBGA

MCP NOR Flash W-Grade (-25°C to 85°C)							
Part Number	Product Type	NOR Density	pSRAM Density	NOR Bus Width	pSRAM Bus Width	Voltage	Package
Serial NOR Flash							
MX65U28F64	QPI Mode	128Mb	64Mb	x4	x16	1.8V	6.2x7.7mm 56-TFBGA
MX65U64F32	QPI Mode	64Mb	32Mb	x4	x16	1.8V	6.2x7.7mm 56-TFBGA
Parallel NOR Flash							
MX69V28F64	AD-Mux	128Mb	64Mb	x16	x16	1.8V	6.2x7.7x1.2mm 56-TFBGA
MX69V28F64	AD-Mux	128Mb	64Mb	x16	x16	1.8V	6.2x7.7x1.05mm 56-TFBGA
MX69N64E32	AD-Mux	64Mb	32Mb	x16	x16	1.8V	6x6mm 56-TFBGA

MACRONIX NAND-Based MCP

MCP NAND Flash I-Grade (-40°C to 85°C)													
Part Number	NAND ONFI Product Type	LPDDR Product Type		NAND Density	LPDDR Density	NAND Bus Width	LPDDR Bus Width	Voltage	ECC Requirement	Package		Temperature Range	
		LPDDR2	LPDDR							8x10.5mm 162-TFBGA	8x9mm 130-TFBGA	-30°C to +85°C	-40°C to +85°C
MX63U4GC2GGA	•	•		4Gb	2Gb	x8	x16	1.8V	4-bit ECC	•		•	•
MX63U4GC2GHA	•	•					x32	1.8V		•		•	•
MX63U4GA2GHA	•	•					x32	1.8V	8-bit ECC	•		•	•
MX63U4GA2GBA	•	•					x32	1.8V		•		•	
MX63U2GE2GGA	•	•		2Gb	2Gb	x8	x16	1.8V	4-bit ECC	•		•	•
MX63U2GE2GHA	•	•					x32	1.8V		•		•	•
MX63U2GE2GGA	•	•					x16	1.8V		•		•	•
MX63U2GD1GJA	•		•	2Gb	1Gb	x16	x16	1.8V	4-bit ECC		•	•	•
MX63U2GC1GCA	•	•				x8	x32	1.8V		•		•	•
MX63U2GC1GKA	•		•			x8	x32	1.8V			•	•	•
MX63U2GA1GCA	•	•				x8	x32	1.8V	8-bit ECC	•		•	•
MX63U2GB1GCA	•	•				x16	x32	1.8V		•		•	•
MX63U1GD1GAA	•	•		1Gb	1Gb	x16	x16	1.8V	4-bit ECC	•		•	•
MX63U1GD12EA	•		•		512Mb	x16	x16	1.8V			•	•	•
MX63U1GC1GCA	•	•			1Gb	x8	x32	1.8V		•		•	•
MX63U1GC1GAA	•	•			1Gb	x8	x16	1.8V		•		•	•
MX63U1GC12HA	•	•			512Mb	x8	x32	1.8V		•		•	•
MX63U1GC12FA	•		•		512Mb	x8	x32	1.8V			•	•	•
MX63U1GD12EA	•		•		512Mb	x16	x16	1.8V			•	•	•

Note: For further information, please contact our regional sales representatives.

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MACRONIX e•MMC™

e•MMC™ I-Grade (-40°C to 85°C)								
Density	Voltage	Product Status[1]	Part Number	Tech. Node	e.MMC Version	Bus Width	Max. Bandwidth (MB/s)	Package
8GB	2.7V-3.6V	A	MX52LM08A11XVI	MLC	5.1	x1, x4, x8	400	11.5x13mm 153-FBGA
4GB	2.7V-3.6V	A	MX52LM04A11XSI	MLC	5.1	x1, x4, x8	400	11.5x13mm 153-FBGA
2GB	2.7V-3.6V	A	MX52LM02A11XTI	MLC	5.1	x1, x4, x8	400	9x9mm 153-FBGA
2GB	2.7V-3.6V	A	MX52LM02A11XSI	MLC	5.1	x1, x4, x8	400	11.5x13mm 153-FBGA
1GB	2.7V-3.6V	A	MX52LM01A11XTI	MLC	5.1	x1, x4, x8	400	9x9mm 153-FBGA
1GB	2.7V-3.6V	A	MX52LM01A11XSI	MLC	5.1	x1, x4, x8	400	11.5x13mm 153-FBGA

Notes: e•MMC™ is the trademark of JEDEC/MMCA.

Notes: For further product details and specifications, please refer to the respective datasheets.

1. **Blank** Product is available for custom applications or special markets.
   A Advance Information

Package Type	153-VFBGA	153-VFBGA	153-VFBGA
Package Size (mm)	11.5x13x0.8	11.5x13x1.0	9x9x0.8

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MACRONIX Product Naming Guide

Serial NOR Flash Example

MX 25L 256 35 F M I - 10 G

DEVICE :
25L/66L : 3V, Serial NOR Flash
25U/66U : 1.8V, Serial NOR Flash
25V : 2.5V, Serial NOR Flash

DENSITY :
512 : 512Kb
10 : 1Mb
20 : 2Mb
40 : 4Mb
80 : 8Mb
16 : 16Mb
32 : 32Mb
64 : 64Mb
128 : 128Mb
256/257 : 256Mb
512 : 512Mb
1G : 1Gb
2G : 2Gb

MODE :
06 : Single-in, Dual-out
08 : Unique ID
26 : Default Lock Protection
33/35/39 : MXSMIO®-Multi-in, Multi-out
36 : MXSMIO®-Single-in, Multi-out
45 : MXSMIO® Duplex(DTR)-Multi-in, Multi-out
50 : MXSMIO®-Security RPMC type
55 : MXSMIO®-Security type
73 : MXSMIO®-Multi I/O, Quad I/O Permanent Enable
85 : MXSMIO®-Multi I/O, Dual Quad

PACKAGE TYPE :
P : PDIP
ZN/Z2/Z3/Z4 : WSON
ZU/ZB : USON
M/M1/M2 : SOP
MB/MD : VSOP
O : 8-TSSOP
X : BGA
BA/BB/BC/BD/BE/BF : WLCSP

TEMPERATURE RANGE :
E : Industrial (-55°C to 125°C)
I : Industrial (-40°C to 85°C)
J : Industrial (-40°C to 105°C)
K : Industrial (-40°C to 125°C)
S : Automotive Grade 3 (-40°C to 85°C)
R : Automotive Grade 2 (-40°C to 105°C)
Q : Automotive Grade 1 (-40°C to 125°C)

SPEED :
05 : 200MHz
08 : 133MHz
10 : 104MHz/108MHz
12 : 80MHz/86MHz
13 : 75MHz
15 : 66MHz
20 : 45MHz

OPTION :
G : RoHS Compliant

GENERATION

OctaFlash and Serial NOR Flash 1.8V G-Generation Example

MX 25UM 256 45 G M I 0A

DEVICE :
25U/66U : 1.8V, Serial NOR Flash
25LM/66LM : 3V, 8 I/O, Serial NOR Flash
25UM/66UM : 1.8V,8 I/O,Serial NOR Flash

DENSITY :
128 : 128Mb
256 : 256Mb
512 : 512Mb
1G : 1Gb
2G : 2Gb

MODE :
45 : MXSMIO® Duplex(DTR)-Multi-in, Multi-out

PACKAGE TYPE :
M/M2 : SOP
XD/XR : BGA
ZN/Z2 : WSON

TEMPERATURE RANGE :
I : Industrial (-40°C to 85°C)
S : Automotive Grade 3 (-40°C to 85°C)
R : Automotive Grade 2 (-40°C to 105°C)
Q : Automotive Grade 1 (-40°C to 125°C)

MODEL CODE :
0A : Default STR, x1 I/O enable
1A : Default DTR, x8 I/O enable
00 : Default STR, x1 I/O enable, with password protection
10 : Default DTR, x8 I/O enable,with password protection

GENERATION

Ultra Low Power / Wide Range Vcc Serial NOR Flash Example

MX 25R 64 35 F M2 I L 0

DEVICE :
25R : Serial NOR Flash (Ultra Low Power/1.65-3.6V)

DENSITY :
512 : 512Kb
10 : 1Mb
20 : 2Mb
40 : 4Mb
80 : 8Mb
16 : 16Mb
32 : 32Mb
64 : 64Mb

MODE :
35 : MXSMIO®-Multi-in, Multi-out

PACKAGE TYPE :
ZN/Z2/Z3/Z4 : WSON
ZU/ZB/ZA : USON
M1/M2 : SOP
O : 8-TSSOP
BD/BF : WLCSP

TEMPERATURE RANGE :
I : Industrial (-40°C to 85°C)

OPTION 1 :
L : Ultra Low Power Mode (Default)
H : High Performance Mode (Default)

OPTION 2 :
0 : RESET#, Manufacturing Location
1 : HOLD#, Manufacturing Location
2 : RESET#, Manufacturing Location
3 : HOLD#, Manufacturing Location

GENERATION

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MACRONIX Product Naming Guide

Parallel NOR Flash Example

MX 29GL 512 F H XF I - 90 G

DEVICE :
29F : 5V
29LV/29GL/68GL : 3V
29NS/29VS/29SL : 1.8V
29LA/29GA/68GA : Security type

DENSITY :
20x : 2Mb
40x/040 : 4Mb
80x : 8Mb
16x : 16Mb
32x : 32Mb
64x : 64Mb
12x : 128Mb
25x : 256Mb
51x : 512Mb
1Gx : 1Gb

GENERATION

BLOCK TYPE :
T : Top Boot
B : Bottom Boot
H : Uniform Sector, Highest Address Sector Protected
L : Uniform Sector, Lowest Address Sector Protected
U : VI/O=1.65 to VCC, VCC=2.7V-3.6V, Highest Address Sector Protected
D : VI/O=1.65 to VCC, VCC=2.7V-3.6V, Lowest Address Sector Protected

PACKAGE TYPE :
M: SOP
Q : PLCC
T : TSOP
X : BGA

TEMPERATURE RANGE :
C : Commercial (0°C to 70°C)
I : Industrial (-40°C to 85°C)
J : Industrial (-40°C to 105°C)
S : Automotive Grade 3 (-40°C to 85°C)
R : Automotive Grade 2 (-40°C to 105°C)

SPEED :
55 : 55ns
70 : 70ns
80 : 80ns
90 : 90ns
10 : 100ns
11 : 110ns
12 : 120ns

OPTION :
G : RoHS Compliant
Q : Restricted Vcc (3.0V-3.6V), RoHS Compliant

NAND Flash Example

MX 30 L F 1G 0 8 A A - XK I x

TYPE:
30 : SLC NAND Flash
60 : SLC NAND Flash (stacked die)
35 : SLC Serial NAND Flash

VOLTAGE:
L : 2.7V-3.6V
U: 1.7V-1.95V

CLASSIFICATION:
F : SLC+Large Block

DENSITY :
12 : 512Mb
1G : 1Gb
2G : 2Gb
4G : 4Gb
8G : 8Gb

ECC :
0 : 1bit (2bit in Automotive Grade)
1 : 4bit
2 : 8bit
E : ECC-free

Bus Width :
4 : x4
8 : x8
6 : x16

MODE :
A : Die#, CE#:1, R/B#:1
S : Die#, CE#:1, R/B#:1; Security feature supported

GENERATION

PACKAGE TYPE :
M : 16-SOP (300mil)
T : 48-TSOP (12x20mm)
XK : 63-VFBGA (9x11mm)
XQ : 48-VFBGA (6x8mm)
Z2/Z4 : 8-WSON (8x6mm)

OPERATING TEMPERATURE :
I :Industrial (-40°C to 85°C)
J :Industrial (-40°C to 105°C)
S :Automotive Grade 3 (-40°C to 85°C)
R :Automotive Grade 2 (-40°C to 105°C)

RESERVED

eMMC Example

MX 52 L M 04 A 1 1 XS I x

TYPE:
52 : e•MMC™ Series

VOLTAGE:
L : 2.7V-3.6V

CLASSIFICATION:
M : MLC

DENSITY :
01 : 1G-byte
02 : 2G-byte
04 : 4G-byte
08 : 8G-byte

GENERATION :

Controller Rev. :
1 : CTR #1

Configuration :
1 : Standard Type

PACKAGE TYPE :
XS : 153-VFBGA (11.5x13x0.8mm)
XV : 153-VFBGA (11.5x13x1.0mm)
XT : 153-VFBGA (9x9x0.8mm)

OPERATING TEMPERATURE :
I :Industrial (-40°C to 85°C)

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