

Numonyx® Forté™ serial flash

Product compatibility guide for converting embedded applications

COMPETITIVE PRODUCT COMPATIBILITY GUIDE									
Density	Manufacturer	Part Number	Vcc	Package	Block Architecture	Clock Frequency	Multi I/O	Recommended Numonyx device	Notes
512 Kb	Macronix	MX25L512C	3V	SO8N, UDFFPN8, TSSOP8	4kB, 64kB	85MHz	SPI	M25P05	Different sectorization - SW change
	Macronix	MX25V512	2.5V	UDFPN8	4kB, 64kB	50MHz	SPI	M25P05	Different sectorization - SW change
	PMC	Pm25LV512-25SC	3V	SO8	4kB, 32kB	25MHz	SPI	M25P05	Different sectorization - SW change
1 Mb	Macronix	MX25L1005C	3V	SO8N, UDFFPN8	4kB, 64kB	85MHz	SPI	M25PE10	also 256B offered
	Winbond	W25X10V	3V	SO8N, VFQFPN8	4kB, 64kB	75MHz	Dual I/O	M25PE10	also 256B offered; SPI only supported
	Winbond	W25X10L	2.5V - 3V	SO8N, VFQFPN8	4kB, 64kB	40MHz	Dual I/O	M25PE10	also 256B offered; SPI only supported
	Winbond	W25X10AVxxIG	3V	SO8N, VFQFPN8, PDIP8	4kB, 64kB	100MHz	Dual I/O	M25PE10	also 256B offered; SPI only supported
	Winbond	W25X10ALxxIG	2.5V	SO8N, VFQFPN8, PDIP8	4kB, 64kB	50MHz	Dual I/O	M25PE10	also 256B offered; SPI only supported
	PMC	PM39LV010	3V	SO8N	4kB, 32kB	25MHz	SPI	M25PE10	also 256B, 4kB and 64kB, offered
2 Mb	Macronix	MX25L2005C	3V	SO8N, VFQFPN8, QFN8L, MLP8	4kB, 32kB	85MHz	SPI	M25PE20	also 256B offered
	Winbond	W25X20AVxxIG	3V	SO8N, VFQFPN8, PDIP8	4kB, 64kB	100MHz	Dual I/O	M25PE20	also 256B offered; SPI only supported
	Winbond	W25X20ALxxIG	2.5V	SO8N, VFQFPN8, PDIP8	4kB, 64kB	50MHz	Dual I/O	M25PE20	also 256B offered; SPI only supported
	PMC	PM39LV020	3V	SO8N	4kB, 32kB	25MHz	SPI	M25PE20	also 256B, 4kB and 64kB, offered

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4 Mb	Macronix	MX25L4005C	3V	SO8N, SO8W, PDIP8, VFQFPN8, QFN8L, MLP8	4kB, 64kB	85MHz	SPI	M25PE40	also 256B offered
	Macronix	MX25V4005	2.5V	SO8N, VFQFPN8, QFN8L, MLP8	4kB, 64kB	50MHz	SPI	M25PE40	also 256B offered
	Macronix	MX25V4035	2.5V	SO8N, VFQFPN8, QFN8L, MLP8	4kB, 32kB, 64kB	66MHz/50MHz (D)/ 50MHz (Q)	Quad I/O	M25PE40	single SPI only supported; also 256B offered, 4kB and 64kB only supported
	Winbond	W25X40AVxxIG	3V	SO8N; SO8W, VFQFPN8, PDIP8	4kB, 64kB	100MHz	Dual I/O	M25PE40	also 256B offered; SPI only supported
	Winbond	W25X40ALxxIG	3V	SO8N, SO8W, VFQFPN8, PDIP8	4kB, 64kB	50MHz	Dual I/O	M25PE40	also 256B offered; SPI only supported
	PMC	PM39LV040	3V	SO8N	4kB, 32kB	25MHz	SPI	M25PE40	also 256B, 4kB and 64kB, offered
8 Mb	Macronix	MX25V8035	2.5V	SO8N, VFQFPN8	4kB, 32kB, 64kB	66MHz / 50MHz (D)/ 50MHz (Q)	Quad I/O	M25PX80	Single and Dual I/O supported, 4kB and 64kB only supported
	Macronix	MX25L8005	3V	SO8N, SO8W, VFQFPN8, PDIP8	4kB, 64kB	70MHz	SPI	M25PX80	also Dual I/O offered
	Macronix	MX25V8005	2.5V	SO8N, VFQFPN8	4kB, 64kB	50MHz	SPI	M25PX80	also Dual I/O offered
	Winbond	W25X80AVxxIG	3V	SO8N, SO8W, VFQFPN8, PDIP8	4kB, 64kB	100MHz	Dual I/O	M25PX80	
	Winbond	W25X80ALxxIG	2.5V	SO8N, SO8W, VFQFPN8, PDIP8	4kB, 64kB	50MHz	Dual I/O	M25PX80	
	PMC	PM25LV080B	3V	SO8W, VFQFPN8	4kB, 64kB	100MHz	SPI	M25PX80	

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16 Mb	Macronix	MX25L1605D	3V	SO8N, SO8W, SO16, VFQFPN8, QFN8L, MLP8	4kB, 64kB	86MHz/50MHz (D)	Dual I/O	M25PX16	Single and Dual I/O supported
	Macronix	MX25L1635D	3V	SO8W, SO16, VFQFPN8, QFN8L, MLP8	4kB, 64kB	86MHz/75MHz (D)/75MHz (Q)	Quad I/O	M25PX16	
	Winbond	W25X16ALxxIG	2.5V	SO8N, SO8W, SO16, VFQFPN8, PDIP8	4kB, 64kB	50MHz	Dual I/O	M25PX16	4kB and 64kB only supported
	Winbond	W25X16BVxxIG	3V	SO8N, SO8W, SO16, VFQFPN8, PDIP8	4kB, 32kB, 64kB	80MHz	Dual I/O	M25PX16	Single and Dual I/O supported; 4kB and 64kB only supported
	Winbond	W25Q16VxxIG	3V	SO8W, SO16, VFQFPN8	4kB, 32kB, 64kB	80MHz	Quad I/O	M25PX16	Single and Dual I/O supported; 4kB and 64kB only supported
	Winbond	W25Q16BVxxIG	3V	SO8N, SO8W, SO16, VFQFPN8	4kB, 32kB, 64kB	80MHz	Quad I/O	M25PX16	
	PMC	PM25LV016B	3V	SO8W, VFQFPN8	4kB, 64kB	100MHz	SPI	M25PX16	
	Spansion	S25FL016A0L	3V	SO8W, SO16, VFQFPN8 6x8	64kB	50Mhz	SPI	M25PX16	
32 Mb	Macronix	MX25L3205D	3V	SO8W, SO16, VFQFPN8, QFN8L, MLP8	4kB, 64kB	86MHz/50MHz (D)	Dual I/O	M25PX32	
	Macronix	MX25L3225D	3V	SO8W	4kB, 64kB	86MHz/75MHz (D)/75MHz (Q)	Quad I/O	M25PX32	Single and Dual I/O supported
	Macronix	MX25L3235D	3V	SO8W, SO16, VFQFPN8, QFN8L, MLP8	4kB, 64kB	86MHz/75MHz (D)/75MHz (Q)	Quad I/O	M25PX32	Single and Dual I/O supported
	Macronix	MX25L3237D	3V	SO16, VFQFPN8, QFN8L, MLP8	4kB, 64kB	86MHz/75MHz (D)/75MHz (Q)	Quad I/O	M25PX32	Single and Dual I/O supported
	Winbond	W25X32VxxIG	3V	SO8W, SO16, VDFPN8, PDIP8	4kB, 64kB	75MHz	Dual I/O	M25PX32	
	Winbond	W25X32AVxxIG	3V	SO8W, SO16, VDFPN8, PDIP8	4kB, 64kB	75MHz	Dual I/O	M25PX32	
	Winbond	W25X32BVxxIG	3V	SO8W, SO16, VDFPN8, PDIP8	4kB, 32kB, 64kB	104MHz	Dual I/O	M25PX32	4kB and 64kB only supported
	Winbond	W25Q32VxxIG	3V	SO8W, SO16, VFQFPN8	4kB, 32kB, 64kB	80MHz	Quad I/O	M25PX32	Single and Dual I/O supported; 4kB and 64kB only supported
	Winbond	W25Q32BVxxIG	3V	SO8W, SO16, VFQFPN8	4kB, 32kB, 64kB	104MHz	Quad I/O	M25PX32	Single and Dual I/O supported; 4kB and 64kB only supported

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32 Mb (continued)	Spansion	S25FL032P0	3V	SO8W, SO16, VFQFPN8 6x8, VFQFPN8 6x5	16 x 4kB, 64kB	104 Mhz (x1), 80 Mhz (x2, x4)	Quad I/O	M25PX32	Single and Dual I/O supported Spansion offers 4 kB only on first 2 64 kB
64 Mb	Macronix	MX25L6405D	3V	SO16, VDFPN8	4kB, 64kB	86MHz/50MHz (D)	Dual I/O	M25PX64	
	Macronix	MX25L6445E	3V	SO8W, SO16, VFQFPN8	4kB, 32kB, 64kB	104MHz/75MHz (D)/ 75MHz (Q)	Quad I/O	M25PX64	Single and Dual I/O supported
	Winbond	W25X64Vxx1G	3V	SO16, VDFPN8, PDIP8	4kB, 32kB, 64kB	80MHz	Dual I/O	M25PX64	4kB and 64kB only supported
	Winbond	W25X64BVxx1G	3V	SO8W, SO16, VDFPN8, PDIP8	4kB, 32kB, 64kB	80MHz	Dual I/O	M25PX64	4kB and 64kB only supported
	Winbond	W25Q64BVxx1G	3V	SO8W, SO16, VFQFPN8	4kB, 32kB, 64kB	80MHz	Quad I/O	M25PX64	Single and Dual I/O supported; 4kB and 64kB only supported
	Spansion	S25FL064P0	3V	SO16, VFQFPN8 6x8, TBGA24 6 x 8 mm	16 x 4kB, 64kB	104 Mhz (x1), 80 Mhz (x2, x4)	Quad I/O	M25PX64	Single and Dual I/O supported Spansion offers 4 kB only on first 2 64 kB
128 Mb	Macronix	MX25L12805D	3V	SO16	4kB, 64kB	50MHz	SPI	N25Q128A23	different sectorization - SW changes
	Macronix	MX25L12845E	3V	SO16	4kB, 32kB, 64kB	104MHz/70MHz (D)/ 70MHz (Q)	Quad I/O	N25Q128A23	different sectorization - SW changes - 4kB and 64kB only supported
	Winbond	W25Q128BVx1G	3V	SO16,VDFPN8	4kB, 32kB, 64kB	104MHz/70MHz (D)/ 70MHz (Q)	Quad I/O	N25Q128A23	different sectorization - SW changes - 4kB and 64kB only supported
	Spansion	S25FL128P0	3V	SO16,VFQFPN8 6x8	64kB, 256kB	104 Mhz	Quad I/O	N25Q128A23	different sectorization - SW changes - 4kB and 64kB only supported

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