



Spansion[®] NOR Flash Memory

Competitive Cross Reference Guide
December 2009

FLASH FORWARD



	Manufacturer	Device	Density (Mb)	Voltage (V)	VIO (V)	Bus Type	Bus Width	Sector Type	# Banks	Initial Access Times (ns)	Burst Speed (MHz)	Packages	Temp Range	Recommended Spansion OPN	Pin Compatible	Software Compatible	Notes
Parallel 1.8V	Atmel	AT49SV163D(T)	16	1.65-1.95	-	ADP	x16	Boot Sector	1	80	-	48-Pin TSOP 48-Ball BGA	-40 to +85C	S29AS016J	Yes	Yes	Atmel device does not have WP# or BYTE#; and has an extended command set. Atmel does not recommend this part for use in new designs.
	Eon	EN29SL800	8	1.65-2.2	-	ADP	x8, x16	Boot Sector	1	70, 90	-	48-Pin TSOP 48-Ball TFBGA 48-Ball WFBGA 48-Ball WLGA	0 to +70C -40 to +85C	S29AS008J	Yes	Yes	Spansion AS-J is pin-compatible with 48-Pin TSOP and 48-Ball TFBGA
	Eon	EN39SL800	8	1.65-1.95	-	ADP	x16	Uniform Sector	1	70	-	48-Ball TFBGA 48-Ball WFBGA	-40 to +85C	S29AS008J	Yes	Yes	Spansion AS-J is pin-compatible with 48-Ball TFBGA. EON device does not have RESET#, RY/BY#, BYTE#, and WP#. EON device has 64KB blocks with 4KB sectors.
	Eon	EN29SL160	16	1.65-2.2 1.8-2.2	-	ADP	x8, x16	Boot Sector	1	90	-	48-Pin TSOP 48-Ball FBGA 48-Ball WFBGA 48-Ball WLGA	0 to +70C -40 to +85C	S29AS016J	Yes	Yes	This EON device is EOL. This EON device has a different Unlock Bypass Reset command
	Eon	EN39SL160	16	1.65-1.95	-	ADP	x8, x16	Uniform Sector	1	70	-	48-Pin TSOP 48-Ball TFBGA 48-Ball WFBGA	-40 to +85C	S29AS016J	Yes	Yes	Spansion AS-J is pin-compatible with 48-Pin TSOP and 48-Ball TFBGA. EON device does not have RY/BY# and BYTE# for WFBGA/TFBGA packages. EON device has 64KB blocks with 4KB sectors.
Parallel 3V	Macronix	MX29SL800C T/B, MX29SL802C T/B	8	1.65-2.2	-	ADP	x8, x16	Boot Sector	1	90	-	48-Pin TSOP 48-Ball CSP - 0.8mm pitch (TFBGA, LFBGA), 0.5mm pitch (WFBGA, XFLGA)	0 to +70C -40 to +85C	S29AS008J	Yes	Yes	Spansion AS-J is pin-compatible with 48-Pin TSOP, 48-Ball TFBGA, and 48-Ball LFBGA
Parallel 5V	Numonyx	48F3000M0Y	128	1.7-2.0	-	ADP ADM	x16	Uniform Sector	8	96	133	88-Ball FBGA	-30 to +85C	ADP: S29WS128P ADM: S29VS128R	No	No	The Spansion WS family has 16 banks. Contact factory for pin-compatible solutions.
	Numonyx	48F4000M0Y	256	1.7-2.0	-	ADP ADM AADM	x16	Uniform Sector	8	96	133	107-Ball FBGA	-30 to +85C	ADP: S29WS256N/P ADM: S29VS256R AADM: S29XS256R	No	No	The Spansion WS family has 16 banks. Contact factory for pin-compatible solutions.
	Numonyx	48F5000M0Y	512	1.7-2.0	-	ADP ADM AADM	x16	Uniform Sector	8	96	133	105-Ball FBGA	-30 to +85C	ADP: S29WS512P ADM: S29NS512P AADM: S29XS-R	No	No	The Spansion WS family has 16 banks. Spansion XS-R is currently available at 128Mb and 256Mb densities. Contact factory for pin-compatible solutions.
Serial	Numonyx	48F6000M0Y	1G	1.7-2.0	-	ADP ADM AADM	x16	Uniform Sector	8	96	133	105-Ball FBGA	-30 to +85C	ADP: S29WS-P ADM: S29NS-P AADM: S29XS-R	No	No	The Spansion WS family has 16 banks (Stacked-die solution). Spansion XS-R is available at 128Mb and 256Mb densities. Contact factory for pin-compatible solutions.
	Numonyx	M58PR512LE	512	1.7-2.0	1.7-2.0	ADP	x16	Uniform Sector	8	96	108	105-Ball FBGA 107-Ball FBGA	-30 to +85C	S29WS512P	No	No	Contact factory for pin-compatible solutions.
MCP	Numonyx	M58PR001LE	1G	1.7-2.0	1.7-2.0	ADP	x16	Uniform Sector	8	96	108	105-Ball FBGA 107-Ball FBGA	-30 to +85C	S29WS-P	No	No	Contact factory for pin-compatible solutions.

Bus Types – ADP: Address Data Parallel, ADM: Address Data Multiplexed, AADM: Address-High, Address-Low, Data Multiplexed

Manufacturer	Device	Density (Mb)	Voltage (V)	VIO (V)	Bus Type	Bus Width	Sector Type	# Banks	Initial Access Times (ns)	Burst Speed (MHz)	Packages	Temp Range	Recommended Spansion OPN	Pin Compatible	Software Compatible	Notes
Numonyx	48F4000L0Y	256	1.7-2.0	-	ADP ADM	x16	Boot Sector	16	100	110	88-Ball MCP	-25 to +85C	ADP: S29WS256P ADM: S29NS256P, S29VS256R	No	No	Spansion VS-R has 8 banks. Contact factory for pin-compatible solutions.
Numonyx	48F5000L0Y	512	1.7-2.0	-	ADP ADM	x16	Uniform Sector	16	100	110	88-Ball MCP 105-Ball MCP	-25 to +85C	ADP: S29WS512P ADM: S29NS512P	No	No	Contact factory for pin-compatible solutions.
Numonyx	M58LR128	128	1.7-2.0	1.7-2.0	ADP ADM	x16	Boot Sector	16	70	66	56-Ball FBGA	-30 to +85C	ADP: S29WS128N/P ADM: S29NS128P, S29VS128R	No	No	Contact factory for pin-compatible solutions.
Numonyx	M58LR256	256	1.7-2.0	1.7-2.0	ADP ADM	x16	Boot Sector	16	70	66	88-Ball FBGA	-30 to +85C	ADP: S29WS256N/P ADM: S29NS256P, S29VS256R	No	No	Contact factory for pin-compatible solutions.
Numonyx	M58LT128	128	1.7-2.0	2.7-3.6	ADP	x16	Boot Sector	16	85	52	64-Ball TBGA	-40 to +85C	S29WS128N	No	No	Spansion does not offer 3V VIO for 1.8V VCC devices.
Numonyx	M58LT256	256	1.7-2.0	2.7-3.6	ADP	x16	Boot Sector	16	85	52	64-Ball TBGA	-40 to +85C	S29WS256N	No	No	Spansion does not offer 3V VIO for 1.8V VCC devices.
Numonyx	M58WR016	16	1.7-2.0	1.7-2.0	ADP ADM	x16	Boot Sector	4	70	66	ADP: 56-Ball FBGA ADM: 44-Ball FBGA	-40 to +85C	S29AS016J	No	No	S29AS016J is a standard NOR device.
Numonyx	M58WR032	32	1.7-2.0	1.7-2.0	ADP ADM	x16	Boot Sector	8	70	66	ADP: 56-Ball FBGA ADM: 44-Ball FBGA	-40 to +85C	ADP: S29WS064R ADM: S29VS064R	Yes	No	Spansion WS/VS064R available in Wireless Temperature Range. Spansion VS064R is pin-compatible with 44-Ball FBGA.
Numonyx	M58WR064	64	1.7-2.0	1.7-2.0	ADP ADM	x16	Boot Sector	16	70	66	ADP: 56-Ball FBGA ADM: 44-Ball FBGA	-40 to +85C	ADP: S29WS064R ADM: S29VS064R	Yes	No	Spansion WS/VS064R available in Wireless Temperature Range. Spansion VS064R is pin-compatible with 44-Ball FBGA.
Numonyx	M58WT032	32	1.7-2.0	2.7-3.3	ADP	x16	Boot Sector	8	70	52	88-Ball FBGA	-40 to +85C	S29WS064R	No	No	Spansion does not offer 3V VIO for 1.8V VCC devices. Spansion WS064R available in Wireless Temperature Range.
Numonyx	M58WT064	64	1.7-2.0	2.7-3.3	ADP	x16	Boot Sector	16	70	52	88-Ball FBGA	-40 to +85C	S29WS064R	No	No	Spansion does not offer 3V VIO for 1.8V VCC devices. Spansion WS064R available in Wireless Temperature Range.
Numonyx	28F640P30	64	1.7-2.0	1.7-3.6	ADP	x16	Boot Sector	1	85	52	64-Ball Easy-BGA 56-Pin TSOP 88-Ball SCSP	-40 to +85C	S29GL064N	No	No	This Numonyx device is undergoing process migration. Spansion does not offer 3V VIO for 1.8V VCC devices.
Numonyx	28F128P30	128	1.7-2.0	1.7-3.6	ADP	x16	Boot Sector	1	85	52	64-Ball Easy-BGA 56-Pin TSOP 88-Ball SCSP	-40 to +85C	S29GL128P	No	No	This Numonyx device is undergoing process migration. Spansion does not offer 3V VIO for 1.8V VCC devices.
Numonyx	28F256P30	256	1.7-2.0	1.7-3.6	ADP	x16	Boot Sector	1	100 (BGA) 110 (TSOP)	52	64-Ball Easy-BGA 56-Pin TSOP 88-Ball SCSP	-40 to +85C	S29GL256P	No	No	Spansion does not offer 3V VIO for 1.8V VCC devices.

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Manufacturer	Device	Density (Mb)	Voltage (V)	VIO (V)	Bus Type	Bus Width	Sector Type	# Banks	Initial Access Times (ns)	Burst Speed (MHz)	Packages	Temp Range	Recommended Spansion OPN	Pin Compatible	Software Compatible	Notes
Numonyx	28F512P30	512	1.7-2.0	1.7-3.6	ADP	x16	Uniform/ Boot Sector	1	100 (BGA) 110 (TSOP)	52	64-Ball Easy-BGA 56-Pin TSOP 88-Ball SCSP	-40 to +85C	S29GL512P	No	No	Spansion does not offer 3V VIO for 1.8V VCC devices.
Numonyx	28F00AP30	1G	1.7-2.0	1.7-3.6	ADP	x16	Uniform/ Boot Sector	1	100 (BGA) 110 (TSOP)	52	64-Ball Easy-BGA 56-Pin TSOP 88-Ball SCSP	-40 to +85C	S29GL01GP	No	No	Spansion does not offer 3V VIO for 1.8V VCC devices.
Samsung	K8A3215E-E	32	1.7-1.95	-	ADP	x16	Boot Sector	16	70 (Synch) 80 (Asynch)	66	MCP-only	0 to +70C -25 to +85C	S29WS064R	No	No	Contact factory for pin-compatible solutions.
Samsung	K8A6415E-B	64	1.7-1.95	-	ADP	x16	Boot Sector	16	70 (Synch) 80 (Asynch)	66	MCP-only	0 to +70C -25 to +85C	S29WS064R	No	No	Contact factory for pin-compatible solutions.
Samsung	K8A6415E-C	64	1.7-1.95	-	ADP	x16	Boot Sector	16	70	108	FBGA (88-Ball)	0 to +70C -25 to +85C	S29WS064R	No	No	Contact factory for pin-compatible solutions.
Samsung	K8A2815E-B	128	1.7-1.95	-	ADP	x16	Boot Sector	16	70 (Synch) 80 (Asynch)	66	MCP-only	0 to +70C -25 to +85C	S29WS128P/N	No	Yes	Contact factory for pin-compatible solutions.
Samsung	K8A2815E-C	128	1.7-1.95	-	ADP	x16	Boot Sector	16	70	108	MCP-only	-25 to +85C	S29WS128P/N	No	Yes	Contact factory for pin-compatible solutions.
Samsung	K8A5615E-A	256	1.7-1.95	-	ADP	x16	Boot Sector	16	70 (Synch) 80 (Asynch)	66	MCP-only	0 to +70C -25 to +85C	S29WS256P/N	No	Yes	Contact factory for pin-compatible solutions.
Samsung	K8C(54/55)15E-M	256	1.7-1.95	-	ADP	x16	Boot Sector	16	100	54: 83 55: 133	FBGA (167-Ball)	0 to +70C -25 to +85C	S29WS256P/N	No	Yes	Contact factory for pin-compatible solutions. S29WS256P/N burst frequency is 104MHz/80MHz.
Samsung	K8C(56/57)15E-M	256	1.7-1.95	-	ADP	x16	Boot Sector	16	100	56: 83 57: 133	56: MCP-only 57: FBGA (167-Ball)	0 to +70C -25 to +85C	S29WS256P/N	No	Yes	Contact factory for pin-compatible solutions. S29WS256P/N burst frequency is 104MHz/80MHz.
Samsung	K8C(56/57)15E-A	256	1.7-1.95	-	ADP	x16	Boot Sector	16	100	56: 83 57: 133	FBGA (44-, 88-Ball)	0 to +70C -25 to +85C	S29WS256P/N	No	Yes	Competitor datasheet not available at time of print. Contact factory for pin-compatible solutions. S29WS256P/N burst frequency is 104MHz/80MHz.
Samsung	K8C(10/11)15E-M	512	1.7-1.95	-	ADP	x16	Boot Sector	16	110	10: 83 11: 133	FBGA (167-Ball)	0 to +70C -25 to +85C	S29WS512P	No	Yes	Contact factory for pin-compatible solutions. S29WS512P burst frequency is 104MHz.
Samsung	K8C(12/13)15E-M	512	1.7-1.95	-	ADP	x16	Boot Sector	16	110	12: 83 13: 133	FBGA (167-Ball)	0 to +70C -25 to +85C	S29WS512P	No	Yes	Contact factory for pin-compatible solutions. S29WS512P burst frequency is 104MHz.
Samsung	K8C(12/13)15E-A	512	1.7-1.95	-	ADP	x16	Boot Sector	16	110	12: 83 13: 133	FBGA (64-Ball)	0 to +70C -25 to +85C	S29WS512P	No	Yes	Competitor datasheet not available at time of print. Contact factory for pin-compatible solutions. S29WS512P burst frequency is 104MHz.
Samsung	K8S3215E-E	32	1.7-1.95	-	ADM	x16	Boot Sector	16	70 (Synch) 80 (Asynch)	66	FBGA (44-Ball)	0 to +70C -25 to +85C	S29VS064R	Yes	Yes	S29VS064R has 4 banks.
Samsung	K8S3215E-F	32	1.7-1.95	-	ADM	x16	Boot Sector	16	70	108	FBGA (44-Ball)	0 to +70C -25 to +85C	S29VS064R	Yes	Yes	S29VS064R has 4 banks.
Samsung	K8S6415E-B	64	1.7-1.95	-	ADM	x16	Boot Sector	16	70 (Synch) 80 (Asynch)	66	FBGA (44-Ball)	0 to +70C -25 to +85C	S29VS064R	Yes	Yes	S29VS064R has 4 banks.

Bus Types – ADP: Address Data Parallel, ADM: Address Data Multiplexed, AADM: Address-High, Address-Low, Data Multiplexed

Manufacturer	Device	Density (Mb)	Voltage (V)	VIO (V)	Bus Type	Bus Width	Sector Type	# Banks	Initial Access Times (ns)	Burst Speed (MHz)	Packages	Temp Range	Recommended Spansion OPN	Pin Compatible	Software Compatible	Notes
Samsung	K8S6415E-C	64	1.7-1.95	-	ADM	x16	Boot Sector	16	70	108	MCP-only	-25 to +85C	S29VS064R	No	Yes	Contact factory for pin-compatible solutions. S29VS064R has 4 banks.
Samsung	K8S2815E-B	128	1.7-1.95	-	ADM	x16	Boot Sector	16	70 (Synch) 80 (Asynch)	66	FBGA (44-Ball)	0 to +70C -25 to +85C	S29NS128P S29VS128R	Yes	Yes	Spansion offers faster burst speed. S29VS128R has simplified command set. S29VS128R has 8 banks.
Samsung	K8S2815E-C	128	1.7-1.95	-	ADM	x16	Boot Sector	16	70	108	FBGA (44-Ball)	0 to +70C -25 to +85C	S29NS128P S29VS128R	Yes	Yes	S29VS128R has simplified command set. S29VS128R has 8 banks.
Samsung	K8S5615E-A	256	1.7-1.95	-	ADM	x16	Boot Sector	16	70 (Synch) 80 (Asynch)	66	FBGA (44-Ball)	0 to +70C -25 to +85C	S29NS256P S29VS256R	Yes	Yes	Spansion offers faster burst speed. S29VS256R has simplified command set. S29VS256R has 8 banks.
Samsung	K8F(56/57)15E-M	256	1.7-1.95	-	ADM	x16	Boot Sector	16	100	56: 83 57: 133	FBGA (44-Ball, 88-Ball)	0 to +70C -25 to +85C	S29NS256P S29VS256R	Yes	Yes	Contact factory for pin-compatible solutions. S29VS256R has simplified command set. S29VS256R has 8 banks.
Samsung	K8F(56/57)15E-A	256	1.7-1.95	-	ADM	x16	Boot Sector	16	100	56: 83 57: 133	FBGA (44-Ball)	0 to +70C -25 to +85C	S29NS256P S29VS256R	Yes	Yes	Competitor datasheet not available at time of print. S29VS256R has simplified command set. S29VS256R has 8 banks.
Samsung	K8F(12/13)15E-M	512	1.7-1.95	-	ADM	x16	Boot Sector	16	110	12: 83 13: 133	FBGA (64-Ball)	0 to +70C -25 to +85C	S29NS512P	Yes	Yes	S29NS512P max burst speed is 83MHz.
Samsung	K8F(12/13)15E-A	512	1.7-1.95	-	ADM	x16	Boot Sector	16	110	12: 83 13: 133	FBGA (64-Ball)	0 to +70C -25 to +85C	S29NS512P	Yes	Yes	Competitor datasheet not available at time of print. S29NS512P max burst speed is 83MHz.
Samsung	K8F1115E-M	512	1.7-1.95	-	ADM	x16	Boot Sector	16	100	108	FBGA (64-Ball)	0 to +70C -25 to +85C	S29NS512P	Yes	Yes	Competitor datasheet not available at time of print. S29NS512P max burst speed is 83MHz.
SST	SST39WF800A	8	1.65-1.95	-	ADP	x16	Uniform Sector	1	90	-	48-Ball BGA 48-Ball WFBGA 48-Ball FLGA	0 to +70C -40 to +85C	S29AS008J	Yes	Yes	S29AS008J is pin-compatible with 48-Ball TFBGA. SST device does not have RESET#, RY/BY#, or BYTE# and has different sector sizes.
SST	SST39WF800B	8	1.65-1.95	-	ADP	x16	Uniform Sector	1	70	-	48-Ball BGA 48-Ball WFBGA 48-Ball FLGA	0 to +70C -40 to +85C	S29AS008J	Yes	Yes	S29AS008J is pin-compatible with 48-Ball TFBGA. SST device does not have RESET#, RY/BY#, or BYTE# pins and has different sector sizes.
SST	SST39WF160x	16	1.65-1.95	-	ADP	x16	Uniform Sector	1	70, 90	-	48-Ball TFBGA 48-Ball WFBGA	0 to +70C -40 to +85C	S29AS016J	Yes	Yes	S29AS008J is pin-compatible with 48-Ball TFBGA. SST device does not have RESET#, RY/BY#, or BYTE# pins and has different sector sizes.
SST	SST34WA1601/2	16	1.7-1.95	-	ADM	x16	Boot Sector	4	70	66	44-Ball FBGA	-20 to +85C	S29VS064R	Yes	Yes	-
SST	SST34WA3203/4	32	1.7-1.95	-	ADM	x16	Boot Sector	4	70	66	44-Ball FBGA	-20 to +85C	S29VS064R	Yes	Yes	-

Bus Types – ADP: Address Data Parallel, ADM: Address Data Multiplexed, AADM: Address-High, Address-Low, Data Multiplexed

	Manufacturer	Device	Density (Mb)	Voltage (V)	VIO (V)	Bus Width	Sector Type	Initial Access Times (ns)	Packages	Temp Range	Recommended Spansion OPN	Pin Compatible	Software Compatible	Notes
	AMIC	A29L800A	8	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70, 90	48-Pin TSOP 48-Ball TFBGA 44-Pin SOP	0 to +70C -25 to +85C -40 to +85C	S29AL008J	Yes	Yes	AMIC device does not have WP#.
	AMIC	A29L008A	8	2.7-3.6	2.7-3.6	x8	Boot Sector	70, 90	40-Pin TSOP	0 to +70C -40 to +85C	S29AL008J	No	Yes	-
	AMIC	A29L008	8	2.7-3.6	2.7-3.6	x8	Boot Sector	70, 90	40-Pin TSOP	0 to +70C -40 to +85C	S29AL008J	No	Yes	-
	AMIC	A29L160A	16	3.0-3.6	3.0-3.6	x8, x16	Boot Sector	60, 70	48-Pin TSOP 48-Ball FBGA 44-Pin SOP	0 to +70C -25 to +85C -40 to +85C	S29AL016J	Yes	Yes	AMIC device does not have WP#.
	AMIC	A29L320A	32	2.7-3.6 3.0-3.6	2.7-3.6 3.0-3.6	x8, x16	Boot Sector	70, 80, 90, 120	48-Pin TSOP 48-Ball TFBGA	0 to +70C -25 to +85C -40 to +85C	S29GL032N	Yes	Yes	This AMIC device only supports full VCC (2.7-3.6) for commercial temperature range. Regulated VCC (3.0-3.6) needed for Industrial & Wireless temperature ranges.
	AMIC	A29L640	64	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70	44-Pin SOP 48-Pin TSOP 48-Ball TFBGA	0 to +70C -25 to +85C -40 to +85C	S29GL064N	Yes	Yes	S29GL064N is compatible with 48-Pin TSOP and 48-Ball TFBGA.
Parallel 1.8V	Atmel	AT49BV802D	8	2.65-3.6	2.65-3.6	x8, x16	Boot Sector	70	48-Pin TSOP 48-Ball CBGA	-40 to +85C	S29AL008J	Yes	Yes	Slightly different sector architecture.
	Atmel	AT49BV160D	16	2.65-3.6	2.65-3.6	x16	Boot Sector	70	48-Pin TSOP	-40 to +85C	S29AL016J	No	No	Different sector architecture, pinouts, and command set.
	Atmel	AT49BV163D	16	2.65-3.6	2.65-3.6	x8, x16	Boot Sector	70	48-Pin TSOP 48-Ball CBGA	-40 to +85C	S29AL016J	Yes	Yes	Different sector architecture. Atmel device does not have WP#.
Parallel 3V	Atmel	AT49BV320D	32	2.65-3.6	2.65-3.6	x16	Boot Sector	70	48-Pin TSOP 47-Ball CBGA	-40 to +85C	S29GL032N	No	No	Different pinout, command set.
	Atmel	AT49BV322D	32	2.65-3.6	2.65-3.6	x8, x16	Boot Sector	70	48-Pin TSOP 48-Ball CBGA	-40 to +85C	S29GL032N	Yes	Yes	-
	Atmel	AT49BV640D	64	2.65-3.6	2.65-3.6	x16	Boot Sector	70	48-Ball CBGA	-40 to +85C	S29GL064N	No	No	Different ball-out, command set.
	Atmel	AT49BV642D	64	2.65-3.6	2.65-3.6	x16	Boot Sector	70	48-Pin TSOP	-40 to +85C	S29GL064N	Yes	Yes	Different sector architecture for similar pin-out models.
Parallel 5V	EON	EN29LV800B	8	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	55, 70, 90	48-Pin TSOP 48-Ball TFBGA	0 to +70C -40 to +85C	S29AL008J	Yes	Yes	This EON part is EOL. EON device does not have WP#.
	EON	EN29LV800C	8	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70	48-Pin TSOP 48-Ball TFBGA	-40 to +85C -45 to +125C	S29AL008J	Yes	Yes	EON device does not have WP#.
	EON	EN29LV160A	16	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70, 90	48-Pin TSOP 48-Ball FBGA 44-Pin SOP	0 to +70C -40 to +85C	S29AL016J	Yes	Yes	This EON part is EOL. EON device does not have WP#.
Serial	EON	EN29LV160B	16	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70	48-Pin TSOP 48-Ball TFBGA	-40 to +85C	S29AL016J	Yes	Yes	EON device does not have WP#.
	EON	EN29LV320A	32	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70, 90	48-Pin TSOP 48-Ball TFBGA	0 to +70C -40 to +85C	S29GL032N	Yes	Yes	This EON part is EOL. S29GL-N supports Page Mode.
	EON	EN29LV320B	32	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70	48-Pin TSOP 48-Ball TFBGA	-40 to +85C	S29GL032N	Yes	Yes	S29GL-N supports Page Mode.
MCP	EON	EN29PL032	32	2.7-3.6	2.7-3.6	x16	Boot Sector	70	48-Pin TSOP	-40 to +85C	S29JL032H	Yes	Yes	Different sector architecture to S29JL032H. S29JL032H is not a page-mode device. This EON device is a page mode device.
	EON	EN29LV640T/B	64	2.7-3.6 3.0-3.6	2.7-3.6 3.0-3.6	x8, x16	Boot Sector	70, 90	48-Pin TSOP 48-Ball FBGA 64-Ball TFBGA	-40 to +85C	S29GL064N	Yes	Yes	70ns access time only available for 3.0-3.6 voltage range.

Manufacturer	Device	Density (Mb)	Voltage (V)	VIO (V)	Bus Width	Sector Type	Initial Access Times (ns)	Packages	Temp Range	Recommended Spansion OPN	Pin Compatible	Software Compatible	Notes
EON	EN29LV640H/L	64	2.7-3.6	2.7-3.6	x16	Uniform Sector	90	48-Pin TSOP 48-Ball FBGA	0 to +70C -40 to +85C	S29GL064N	Yes	Yes	This EON device is EOL. S29GL032N has different sector architecture for similar pin-out models.
EON	EN29GL064	64	2.7-3.6	1.65-3.6	x8, x16	Boot Sector Uniform Sector	70	48-Pin TSOP 56-Pin TSOP 48-Ball TFBGA 64-Ball FBGA	-40 to +85C	S29GL064N	Yes	Yes	-
EON	EN29PL064	64	2.7-3.6	2.7-3.6	x16	Boot Sector	70	48-Pin TSOP	-40 to +85C	S29JL064H	Yes	Yes	S29JL064H is not a page-mode device. This EON device is a page mode device.
EON	EN29GL128	128	2.7-3.6	1.65-3.6	x8, x16	Uniform Sector	70	56-Pin TSOP 64-Ball FBGA	-40 to +85C	S29GL128P	Yes	Yes	-
ESI	ES29LV800E	8	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70, 90, 120	48-Pin TSOP 48-Ball FBGA	0 to +70C -40 to +85C	S29AL008J	Yes	Yes	ESI device does not have WP#.
ESI	ES29LV160E	16	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70, 90	48-Pin TSOP 48-Ball FBGA	0 to +70C -40 to +85C	S29AL016J	Yes	Yes	ESI device does not have WP#.
ESI	ES29LV160F	16	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	55, 70	48-Pin TSOP 48-Ball FBGA	0 to +70C -40 to +85C	S29AL016J	Yes	Yes	ESI device does not have WP#.
ESI	ES29LV320E	32	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70, 90	48-Pin TSOP 48-Ball FBGA	0 to +70C -40 to +85C	S29GL032N	Yes	Yes	-
ESI	ES29LV320F	32	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70, 90	48-Pin TSOP 48-Ball FBGA	0 to +70C -40 to +85C	S29GL032N	Yes	Yes	-
ESI	ES29LV640	64	2.7-3.6 3.0-3.6	2.7-3.6 3.0-3.6	x8, x16	Boot Sector	55, 70	48-Pin TSOP 48-Ball FBGA	0 to +70C -40 to +85C	S29GL064N	Yes	Yes	55ns access time only available for 3.0-3.6 voltage range.
ESMT	F49L800UA/ F49L800BA	8	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70, 90	48-Pin TSOP	0 to +70C -40 to +85C	S29AL008J	Yes	Yes	ESMT device does not have WP#.
ESMT	F49L160UA/ F49L160BA	16	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70, 90	48-Pin TSOP	0 to +70C -40 to +85C	S29AL016J	Yes	Yes	Industrial temp grade only available for regulated VCC and 90ns speed. ESMT device does not have WP#.
ESMT	F49L320UA/ F49L320BA	32	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70, 90	48-Pin TSOP	0 to +70C -40 to +85C	S29GL032N	Yes	Yes	-
Macronix	MX29LV800C	8	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	45, 55, 70, 90	48-Pin TSOP 48-Ball T/LFBGA 44-Pin SOP	0 to +70C -40 to +85C	S29AL008J	Yes	Yes	Macronix device does not have WP#. S29AL016J is pin-compatible with 48-Pin TSOP, 48-Ball TFBGA and 48-Ball LFBGA.
Macronix	MX29LV160D	16	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70	48-Pin TSOP 48-Ball T/LFBGA 48-Ball WFBGA/ XFLGA	0 to +70C -40 to +85C	S29AL016J	Yes	Yes	S29AL016J is pin-compatible with 48-Pin TSOP, 48-Ball TFBGA and 48-Ball LFBGA.
Macronix	MX29LV161D	16	2.7-3.6	1.65-3.6	x16	Boot Sector	90	48-Pin TSOP 48-Ball TFBGA 48-Ball WFBGA/ XFLGA	0 to +70C -40 to +85C	S29AL016J	Yes	Yes	S29AL016J is pin-compatible with 48-Pin TSOP and 48-Ball TFBGA. Macronix device replaces BYTE# with VIO.
Macronix	MX29LV320D	32	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70, 90	48-Pin TSOP 48-Ball T/LFBGA 44-Pin SOP	0 to +70C -40 to +85C	S29GL032N	Yes	Yes	S29GL032N is pin-compatible with 48-Pin TSOP, 48-Ball TFBGA and 48-Ball LFBGA.
Macronix	MX29LV321D	32	2.7-3.6	1.65-3.6	x16	Boot Sector	90	48-Pin TSOP 48-Ball TFBGA	0 to +70C -40 to +85C	S29GL032N	Yes	Yes	S29GL032N is pin-compatible with 48-Pin TSOP and 48-Ball TFBGA. Macronix device replaces BYTE# with VIO. S29GL032N supports Page Mode.
Macronix	MX29LV640D	64	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	90	44-Pin SOP 48-Pin TSOP 48-Ball LFBGA	-40 to +85C 0 to +70C	S29GL064N	Yes	Yes	Macronix does not recommend this device for new designs. S29GL064N is pin-compatible with 48-Pin TSOP and 48-Ball LFBGA. S29GL064N supports Page Mode.

Parallel 1.8V

Parallel 3V

Parallel 5V

Serial

MCP

	Manufacturer	Device	Density (Mb)	Voltage (V)	VIO (V)	Bus Width	Sector Type	Initial Access Times (ns)	Packages	Temp Range	Recommended Spansion OPN	Pin Compatible	Software Compatible	Notes
	Macronix	MX29LV640E	64	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70	48-Pin TSOP 48-Ball FBGA	-40 to +85C 0 to +70C	S29GL064N	Yes	Yes	S29GL064N supports Page Mode.
	Macronix	MX29LV128D	128	3.0-3.6	3.0-3.6	x8, x16	Uniform Sector	90	48-Pin TSOP 56-Pin TSOP 70-Pin SSOP	-40 to +85C	S29GL128P	Yes	Yes	S29GL128P is pin-compatible with 56-Pin TSOP. S29GL128P supports Page Mode.
	Macronix	MX29GL320E	32	2.7-3.6	2.7-3.6	x8, x16	Boot Sector Uniform Sector	70	48-Pin TSOP 48-Ball LFBGA 56-Pin TSOP 64-Ball LFBGA	-40 to +85C	S29GL032N	Yes	Yes	-
	Macronix	MX29GL640E	64	2.7-3.6	2.7-3.6	x8, x16	Boot Sector Uniform Sector	70, 90	48-Pin TSOP 48-Ball LFBGA 56-Pin TSOP 64-Ball LFBGA	-40 to +85C	S29GL064N	Yes	Yes	-
	Macronix	MX29GL128E	128	2.7-3.6	1.65-3.6	x8, x16	Uniform Sector	90, 110	56-Pin TSOP 64-Ball FBGA 64-Ball LFBGA 70-Pin SSOP	-40 to +85C 0 to +70C	S29GL128P	Yes	Yes	S29GL128P is pin compatible with 56-pin TSOP, 64-Ball FBGA and 64-Ball LFBGA.
Parallel 1.8V	Macronix	MX29GL256E	256	2.7-3.6	1.65-3.6	x8, x16	Uniform Sector	90, 100, 110	56-Pin TSOP 64-Ball FBGA 64-Ball LFBGA 70-Pin SSOP	-40 to +85C 0 to +70C	S29GL256P	Yes	Yes	S29GL256P is pin compatible with 56-pin TSOP, 64-Ball FBGA and 64-Ball LFBGA.
	Macronix	MX29GL512E	512	2.7-3.6 3.0-3.6	2.7-3.6 3.0-3.6	x8, x16	Uniform Sector	100, 110	56-Pin TSOP 64-Ball LFBGA 70-Pin SSOP	-40 to +85C 0 to +70C	S29GL512P	Yes	Yes	S29GL512P is pin compatible with 56-pin TSOP and 64-Ball LFBGA.
Parallel 3V	Numonyx	M29W800D	8	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	45, 70, 90	48-Pin TSOP 48-Ball TFBGA 44-Pin SOP	-40 to +85C	S29AL008J	Yes	Yes	Numonyx device does not have WP#.
	Numonyx	M29W800F	8	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70, 90 (KGD only)	48-Pin TSOP 48-Ball TFBGA	-40 to +125C	S29AL008J	Yes	Yes	Numonyx device does not have WP#.
	Numonyx	M29W160E	16	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70, 90	48-Pin TSOP 48-Ball TFBGA	-40 to +85C	S29AL016J	Yes	Yes	Numonyx device does not have WP#.
Parallel 5V	Numonyx	M29W160F	16	2.5-3.6	2.5-3.6	x8, x16	Boot Sector	70, 80	48-Pin TSOP 48-Ball TFBGA	-40 to +125C	S29AL016J	Yes	Yes	Numonyx device does not have WP#.
	Numonyx	M29W320D	32	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70, 90	48-Pin TSOP 48-Ball TFBGA	-40 to +85C -40 to +125C	S29GL032N	Yes	Yes	Different sector architecture.
	Numonyx	M29W320E	32	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70, 90	48-Pin TSOP 48-Ball TFBGA	0 to +70C -40 to +85C	S29GL032N	Yes	Yes	-
Serial	Numonyx	M29W320F	32	2.5-3.6	2.5-3.6	x8, x16	Boot Sector	70, 80	48-Pin TSOP 48-Ball TFBGA	-40 to +125C	S29GL032N	Yes	Yes	Different sector architecture.
	Numonyx	M29W640F	64	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	60, 70	48-Pin TSOP 48-Ball TFBGA	-40 to +85C	S29GL064N	Yes	Yes	S29GL064N has larger page-read size.
	Numonyx	M29W640G	64	2.7-3.6	2.7-3.6	x8, x16	Boot Sector Uniform Sector	60, 70, 90	48-Pin TSOP 48-Ball TFBGA 56-Pin TSOP 64-Ball FBGA	-40 to +85C	S29GL064N	Yes	Yes	S29GL064N has larger page-read size. S29GL064N supports VIO of 1.65 to 3.6 on uniform sector models. Refer to datasheet for best match package and sector architecture model.
MCP	Numonyx	M29W064F	64	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	60, 70	48-Pin TSOP 48-Ball TFBGA	-40 to +85C -40 to +125C	S29GL064N	Yes	Yes	S29GL064N has larger page-read size.
	Numonyx	M29W128F	128	2.7-3.6	2.7-3.6	x8, x16	Uniform Sector	60	56-Pin TSOP 64-Ball TBGA	-40 to +85C	S29GL128P	Yes	Yes	Different sector sizes.

	Manufacturer	Device	Density (Mb)	Voltage (V)	VIO (V)	Bus Width	Sector Type	Initial Access Times (ns)	Packages	Temp Range	Recommended Spansion OPN	Pin Compatible	Software Compatible	Notes
	Numonyx	M29W128G	128	2.7-3.6	1.65-3.6	x8, x16	Uniform Sector	60, 70, 80	56-Pin TSOP 64-Ball TBGA 64-Ball FBGA	0 to +70C -40 to +85C -40 to +125C	S29GL128P	Yes	Yes	Numonyx device access time is 80ns if full VIO is needed. Different sector sizes.
	Numonyx	M29W256G	256	2.7-3.6	1.65-3.6	x8, x16	Uniform Sector	60, 70, 80	56-Pin TSOP 64-Ball TBGA 64-Ball LPGA	0 to +70C -40 to +85C	S29GL256P	Yes	Yes	Numonyx device access time is 80ns if full VIO is needed. Different sector sizes.
	Numonyx	M29DW323D	32	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70	48-Pin TSOP 48-Ball TFBGA	0 to +70C -40 to +85C	S29JL032H S29PL032J	Yes	Yes	Bank architecture is similar to S29JL032H model 31 or 32. S29JL032H is available in 48-pin TSOP, no page-mode; S29PL032J has page mode and available as 48-ball FBGA.
	Numonyx	M29DW324D	32	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70, 90	48-Pin TSOP 48-Ball TFBGA	0 to +70C -40 to +85C	S29JL032H S29PL032J	Yes	Yes	Bank architecture is similar to S29JL032H model 41 or 42. S29JL032H is available in 48-pin TSOP, no page-mode; S29PL032J has page mode and available as 48-ball FBGA.
	Numonyx	M29DW640F	64	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	60, 70	48-Pin TSOP 48-Ball TFBGA	0 to +70C -40 to +85C	S29JL064H S29PL064J	Yes	Yes	S29JL064H is available as 48-Pin TSOP, no page mode; S29PL064J has page mode and available as 48-ball FBGA.
Parallel 1.8V	Numonyx	M29DW641F	64	2.7-3.6	2.7-3.6	x16	Boot Sector	60, 70	48-Pin TSOP 48-Ball TFBGA	0 to +70C -40 to +85C	S29JL064H S29PL064J	Yes	Yes	S29JL064H is available as 48-Pin TSOP, no page mode; S29PL064J has page mode and available as 48-ball FBGA.
	Numonyx	M29DW128F	128	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	60	56-Pin TSOP 64-Ball TBGA	0 to +70C -40 to +85C	S29PL127J	Yes	Yes	Compatible with S29PL127J in x16 mode, top-boot, 56-Pin TSOP
	Numonyx	M29DW127G	128	2.7-3.6	1.65-3.6	x8, x16	Boot Sector	60, 70, 80	56-Pin TSOP 64-Ball TBGA	-40 to +85C	S29PL127J	Yes	Yes	Numonyx device access time is 80ns if full VIO is needed. Compatible with S29PL127J in x16 mode, top-boot, 56-Pin TSOP.
Parallel 3V	Numonyx	M29DW128G	128	2.7-3.6	1.65-3.6	x16	Boot Sector	60, 70, 80	56-Pin TSOP 64-Ball TBGA	-40 to +85C	S29PL127J	Yes	Yes	Numonyx device access time is 80ns if full VIO is needed. Compatible with S29PL127J in top-boot 56-Pin TSOP.
	Numonyx	M29DW256G	256	2.7-3.6	1.65-3.6	x16	Boot Sector	60, 70	56-Pin TSOP 64-Ball TBGA 64-Ball LPGA	0 to +70C -40 to +85C	S29GL256P	Yes	Yes	Numonyx device access time is 80ns if full VIO is needed. Pin compatible with S29GL256P x16 mode with no simul-op. Different sector architecture.
Parallel 5V	Numonyx	28F256M29EW	256	2.7-3.6	1.65-3.6	x8, x16	Uniform Sector	100 (FBGA), 110 (TSOP)	56-Pin TSOP 64-Ball FBGA	-40 to +85C	S29GL256P	Yes	Yes	Spansion offers 90ns access time with regulated VCC.
	Numonyx	28F512M29EW	512	2.7-3.6	1.65-3.6	x8, x16	Uniform Sector	100 (FBGA), 110 (TSOP)	56-Pin TSOP 64-Ball FBGA	-40 to +85C	S29GL512P	Yes	Yes	Spansion offers 100ns access time with regulated VCC.
	Numonyx	28F00AM29EW	1G	2.7-3.6	1.65-3.6	x8, x16	Uniform Sector	100 (FBGA), 110 (TSOP)	56-Pin TSOP 64-Ball FBGA	-40 to +85C	S29GL01GP	Yes	Yes	Spansion offers 110ns access time with regulated VCC.
Serial	Numonyx	28F640P33	64	2.3-3.6	2.3-3.6	x16	Boot Sector	95 (BGA), 105 (TSOP)	56-Pin TSOP 64-Ball Easy BGA	-40 to +85C	S29GL064N	No	No	This Numonyx device is undergoing process migration. Different sector architecture, pinouts, and command set.
	Numonyx	28F128P33	128	2.3-3.6	2.3-3.6	x16	Boot Sector	95 (BGA), 105 (TSOP)	56-Pin TSOP 64-Ball Easy BGA	-40 to +85C	S29GL128P	No	No	This Numonyx device is undergoing process migration. Different sector architecture, pinouts, and command set.
	Numonyx	28F256P33	256	2.3-3.6	2.3-3.6	x16	Boot Sector	95 (BGA), 105 (TSOP)	56-Pin TSOP 64-Ball Easy BGA	-40 to +85C	S29GL256P	No	No	Different sector architecture, pinouts, and command set.
MCP	Numonyx	28F512P33	512	2.3-3.6	2.3-3.6	x16	Boot Sector Uniform sector	95 (BGA), 105 (TSOP)	56-Pin TSOP 64-Ball Easy BGA	-40 to +85C	S29GL512P	No	No	Different pinouts and command set. Similar sector architecture for uniform sector models.
	Numonyx	28F00AP33	1G	2.3-3.6	2.3-3.6	x16	Boot Sector Uniform Sector	95 (BGA), 105 (TSOP)	56-Pin TSOP 64-Ball Easy BGA	-40 to +85C	S29GL01GP	No	No	Different pinouts and command set. Similar sector architecture for uniform sector models.
	Numonyx	28F320J3	32	2.7-3.6	2.7-3.6	x8, x16	Uniform Sector	75	56-Pin TSOP 64-Ball Easy BGA	-40 to +85C	S29GL032N	No	No	Different pinouts and command set.
	Numonyx	28F640J3	64	2.7-3.6	2.7-3.6	x8, x16	Uniform Sector	75	56-Pin TSOP 64-Ball Easy BGA	-40 to +85C	S29GL064N	No	No	Different pinouts and command set.

	Manufacturer	Device	Density (Mb)	Voltage (V)	VIO (V)	Bus Width	Sector Type	Initial Access Times (ns)	Packages	Temp Range	Recommended Spansion OPN	Pin Compatible	Software Compatible	Notes
	Numonyx	28F128J3	128	2.7-3.6	2.7-3.6	x8, x16	Uniform Sector	75	56-Pin TSOP 64-Ball Easy BGA	-40 to +85C	S29GL128P	No	No	Different pinouts and command set.
	Numonyx	28F256J3	256	2.7-3.6	2.7-3.6	x8, x16	Uniform Sector	95 (BGA), 105 (TSOP)	56-Pin TSOP 64-Ball Easy BGA	-40 to +85C	S29GL256P	No	No	Different pinouts and command set.
	Numonyx	M28W160C	16	2.7-3.6	1.65-3.6	x16	Boot Sector	70, 85, 90, 100	48-Pin TSOP 46-Ball TFBGA	0 to +70C -40 to +85C	S29AL016J	No	No	Different sector architecture, pinouts, and command set.
	Numonyx	M28W160EC	16	2.7-3.6	1.65-3.6	x16	Boot Sector	70, 85, 90, 100	48-Pin TSOP 46-Ball TFBGA	0 to +70C -40 to +85C	S29AL016J	No	No	Different sector architecture, pinouts, and command set.
	Numonyx	M28W320FC	32	2.7-3.6	1.65-3.6	x16	Boot Sector	70, 85, 90, 100	48-Pin TSOP 47-Ball TFBGA	-40 to +85C	S29GL032N	No	No	Different pinouts & command set
	Numonyx	M28W640FC	64	2.7-3.6	1.65-3.6	x16	Boot Sector	70, 85, 90, 100	48-Pin TSOP 48-Ball TFBGA	0 to +70C -40 to +85C	S29GL064N	Yes	No	Pin compatible with S29GL064N model numbers 06, 07, V6, V7 (48-Pin TSOP). Different sector architecture and command set.
	Numonyx	M28W640HC	64	2.7-3.6	2.7-3.6	x16	Boot Sector	70	48-Pin TSOP 48-Ball TFBGA	-40 to +85C	S29GL064N	Yes	No	Pin compatible with S29GL064N model numbers 06, 07, V6, V7 (48-Pin TSOP). Different sector architecture and command set.
Parallel 1.8V	Numonyx	M58BW016D M58BW016F	16	2.7-3.6	2.4-3.6	x32	Boot Sector	70, 80	80-Pin PQFP 80-Ball LBGGA	-40 to +90C -40 to +125C	S29CL016J	Yes	No	Numonyx device does not have RY/BY#, and has additional Burst Address Advance and Output Disable pins.
	Numonyx	M58BW16F	16	2.7-3.6 2.5-3.3	2.4-3.6	x32	Boot Sector	45, 55	80-Pin PQFP 80-Ball LBGGA	-40 to +125C	S29CD016J S29CL016J	Yes	No	45ns access only available with 2.7-3.6 voltage range. Numonyx device does not have RY/BY#, replaces ACC with Program/Erase Enable, and has additional Burst Address Advance and Output Disable pins.
Parallel 3V	Numonyx	M58BW32F	32	2.7-3.6 2.5-3.3	2.4-3.6	x32	Boot Sector	45, 55	80-Pin PQFP 80-Ball LBGGA	-40 to +125C	S29CD032J S29CL032J	Yes	No	45ns access only available with 2.7-3.6 voltage range. Numonyx device does not have RY/BY#, replaces ACC with Program/Erase Enable, and has additional Burst Address Advance and Output Disable pins.
	Samsung	K8P1615UQB	16	2.7-3.6	1.65-1.95 2.7-3.6	x16	Boot Sector	60	48-Pin TSOP 48-Ball FBGA	0 to +70C -25 to +85C -40 to +85C	S29PL032J S29JL032H	Yes	Yes	Different sector architecture. S29JL032H is available in 48-pin TSOP, no page-mode. S29PL032J has page mode and available as 48-ball FBGA.
	Samsung	K8P3215UQB	32	2.7-3.6	1.65-1.95 2.7-3.6	x16	Boot Sector	55	48-Pin TSOP 48-Ball FBGA 64-Ball FBGA	0 to +70C -25 to +85C -40 to +85C	S29PL032J S29JL032H	Yes	Yes	Different sector architecture to S29JL032H. S29JL032H is available in 48-pin TSOP, no page-mode. S29PL032J has page mode and available as 48-ball FBGA.
	Samsung	K8P3315UQB	32	2.7-3.6	1.65-1.95 2.7-3.6	x16	Boot Sector	60	48-Pin TSOP 48-Ball FBGA 64-Ball FBGA	0 to +70C -25 to +85C -40 to +85C	S29PL032J S29JL032H	Yes	Yes	Different bank architecture. S29JL064H is available in 48-pin TSOP, no page-mode. S29PL064J has page mode and available as 48-ball FBGA.
	Samsung	K8P6415UQB	64	2.7-3.6	1.65-1.95 2.7-3.6	x16	Boot Sector	60	48-Pin TSOP 48-Ball FBGA 64-Ball FBGA	0 to +70C -25 to +85C -40 to +85C	S29PL064J S29JL064H	Yes	Yes	S29JL064H is available in 48-pin TSOP, no page-mode. S29PL064J has page mode and available as 48-ball FBGA.
	Samsung	K8P6515UQB	64	2.7-3.6	1.65-1.95 2.7-3.6	x16	Boot Sector	60	48-Pin TSOP 48-Ball FBGA 64-Ball FBGA	0 to +70C -25 to +85C	S29PL064J S29JL064H	N/A	N/A	Competitor datasheet not available at time of print.
	Samsung	K8Q2815UQB	128	2.7-3.6	1.65-1.95 2.7-3.6	x16	Boot Sector	60	56-Pin TSOP	-25 to +85C -40 to +85C	S29GL128P	Yes	Yes	Different sector sizes. S29GL128P is a monolithic, single bank device. Samsung is a 2-die, multibank device.
	Samsung	K8P2815UQB	128	2.7-3.6	1.65-1.95 2.7-3.6	x16	Boot Sector	60	64-Ball FBGA 80-Ball FBGA	0 to +70C -25 to +85C -40 to +85C	S29PL127J	Yes	Yes	Pin-compatible with S29PL127J 80-Ball FBGA. S29PL127J offers faster access speeds.
	Samsung	K8P2915UQB	128	2.7-3.6	1.65-1.95 2.7-3.6	x16	Boot Sector	60	64-Ball FBGA 80-Ball FBGA	0 to +70C -25 to +85C	S29PL129N	Yes	Yes	Pin-compatible with S29PL129N 64-Ball FBGA. Different sector architecture.

	Manufacturer	Device	Density (Mb)	Voltage (V)	VIO (V)	Bus Width	Sector Type	Initial Access Times (ns)	Packages	Temp Range	Recommended Spansion OPN	Pin Compatible	Software Compatible	Notes
	Samsung	K8P5615UQA	256	2.7-3.6	2.7-3.6	x16	Boot Sector	70	56-Pin TSOP 84-Ball FBGA	0 to +70C -25 to +85C -40 to +85C	S29PL256N	Yes	Yes	Pin-compatible with S29PL256N 84-Ball FBGA.
	SST	SST39VF800A	8	2.7-3.6	2.7-3.6	x16	Uniform Sector	70, 90	48-Pin TSOP 48-Ball TFBGA 48-Ball XFLGA	0 to +70C -40 to +85C	S29AL008J	Yes	Yes	Different sector architecture.
	SST	SST39LF800A	8	3.0-3.6	3.0-3.6	x16	Uniform Sector	55	48-Pin TSOP 48-Ball TFBGA 48-Ball XFLGA	0 to +70C	S29AL008J	Yes	Yes	Different sector architecture.
	SST	SST39VF1601/2C	16	2.7-3.6	2.7-3.6	x16	Boot Sector	70	48-Pin TSOP 48-Ball TFBGA	0 to +70C -40 to +85C	S29AL016J	Yes	Yes	SST device does not have BYTE#.
	SST	SST39VF1601/2	16	2.7-3.6	2.7-3.6	x16	Uniform Sector	70	48-Pin TSOP 48-Ball TFBGA	0 to +70C -40 to +85C	S29AL016J	Yes	Yes	Different sector architecture, SST device does not have RY/BY# and BYTE# pins.
	SST	SST39VF1681/2	16	2.7-3.6	2.7-3.6	x8	Uniform Sector	70, 90	48-Pin TSOP 48-Ball TFBGA	0 to +70C -40 to +85C	S29AL016J	Yes	Yes	Different sector architecture.
Parallel 1.8V	SST	SST36VF1601/2E	16	2.7-3.6	2.7-3.6	x8, x16	Uniform Sector Dual-bank	70	48-Pin TSOP 48-Ball TFBGA	0 to +70C -40 to +85C	S29AL016J	Yes	Yes	Different sector architecture. SST device is Simul-Op.
	SST	SST36VF1601/2G	16	2.7-3.6	2.7-3.6	x8, x16	Uniform Sector Dual-bank	70	48-Pin TSOP 48-Ball TFBGA 56-Ball LFBGA	0 to +70C -40 to +85C	S29AL016J	Yes	Yes	Different sector architecture. SST device is Simul-Op.
	SST	SST39VF3201/2B	32	2.7-3.6	2.7-3.6	x16	Uniform Sector	70	48-Pin TSOP 48-Ball TFBGA	0 to +70C -40 to +85C	S29GL032N	Yes	Yes	Different sector architecture. SST supports 4KB sectors with 64KB overlay block. Spansion sector size is equivalent to SST block size.
Parallel 3V	SST	SST36VF3203/4	32	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70	48-Pin TSOP 48-Ball TFBGA	-20 to +85C -40 to +85C	S29JL032H S29PL032J	Yes	Yes	Different bank/sector architecture. SST supports 4KB sectors with 64KB overlay block. S29JL032H is available in 48-pin TSOP, no page-mode. S29PL032J has page mode and available as 48-ball FBGA.
	SST	SST39VF6401/2B	64	2.7-3.6	2.7-3.6	x16	Uniform Sector	70, 90	48-Pin TSOP 48-Ball TFBGA	-40 to +85C 0 to +70C	S29GL064N	Yes	Yes	Different sector architecture. SST supports 4KB sectors with 64KB overlay block. Spansion sector size is equivalent to SST block size.
Parallel 5V	SST	SST38VF6401/2/3/4	64	2.7-3.6	2.7-3.6	x16	Uniform Sector Boot Sector	90	48-Pin TSOP 48-Ball TFBGA	-40 to +85C 0 to +70C	S29GL064N	Yes	Yes	Different sector architecture. SST supports 4KB sectors with 64KB overlay block. Spansion sector size is equivalent to SST block size.
	Winbond	W19B160B	16	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70, 90	48-Pin TSOP	-20 to +85C -40 to +85C	S29AL016J	Yes	Yes	Winbond device does not have WP#.
	Winbond	W19B320B	32	2.7-3.6	2.7-3.6	x8, x16	Boot Sector	70	48-Pin TSOP	-20 to +85C -40 to +85C	S29GL032N	Yes	Yes	-
Serial														
MCP														

Manufacturer	Device	Density (Mb)	Voltage (V)	VIO (V)	Bus Width	Sector Type	Initial Access Times (ns)	Packages	Temp Range	Recommended Spansion OPN	Pin Compatible	Software Compatible	Notes
AMIC	A29010	1	4.5-5.5	-	x8	Uniform Sector	55, 70, 90	32-Pin PLCC 32-Pin TSOP 32-Pin PDIP	0 to +70C -40 to +85C	Am29F010B	Yes	Yes	Spansion offers 45ns access time. Sector architecture is different.
AMIC	A29001/290011	1	4.5-5.5	-	x8	Boot Sector	55, 70, 90	32-Pin PLCC 32-Pin TSOP 32-Pin PDIP	0 to +70C -40 to +85C	Am29F010B	Yes	Yes	Spansion offers 45ns access time. Sector architecture is different.
AMIC	A29002/290021	2	4.5-5.5	-	x8	Boot Sector	70, 90, 120, 150	32-Pin PDIP 32-Pin PLCC 32-Pin TSOP	0 to +70C	Am29F002B/NB	Yes	Yes	Spansion offers 55ns access time.
AMIC	A29040B	4	4.5-5.5	-	x8	Uniform Sector	55, 70	32-Pin PDIP 32-Pin PLCC 32-Pin TSOP	0 to +70C -40 to +85C	Am29F040B	Yes	Yes	-
AMIC	A29800	8	4.5-5.5	-	x8, x16	Boot Sector	55, 70, 90	44-Pin SO 48-Pin TSOP	0 to +70C -40 to +85C	Am29F800B	Yes	Yes	Program/Erase operation for AMIC device only within 0 to +85C range.
AMIC	A29016	16	4.5-5.5	-	x8	Uniform Sector	55, 70, 90	44-Pin SO 40-Pin TSOP 48-Pin TSOP	0 to +70C -40 to +85C	Am29F016D	Yes	Yes	-
Atmel	AT29C512	512K	4.5-5.5	-	x8	Uniform Sector	70, 90, 120, 150	32-Pin PLCC 32-Pin TSOP	0 to +70C -40 to +85C	Am29F010B	Yes	Yes	Different densities – Atmel pin out lacks highest address bit, different sector sizes. Atmel is a page-program device. Spansion offers 45ns access time.
Atmel	AT29C010A	1	4.5-5.5	-	x8	Boot Sector	70, 90, 120, 150	32-Pin PLCC 32-Pin TSOP	0 to +70C -40 to +85C	Am29F010B	Yes	Yes	Atmel is a page-program device and the sector architecture is different. Spansion offers 45ns access time.
Atmel	AT49F1024A	1	4.5-5.5	-	x16	Boot Sector	45	40-Pin VSOP	0 to +70C	Am29F200B	No	Yes	Not pin out compatible - different packages. Different densities. Sector architecture is different.
Atmel	AT29C020	2	4.5-5.5	-	x8	Boot Sector	70, 90, 100, 120, 150	32-Pin PLCC 32-Pin TSOP	0 to +70C -40 to +85C	Am29F002NB	Yes	Yes	Atmel is a page-program device and the sector architecture is different. Spansion offers 55ns access time.
Atmel	AT29C040A	4	4.5-5.5	-	x8	Boot Sector	90, 120, 150, 200	32-Pin PLCC 32-Pin TSOP	0 to +70C -40 to +85C	Am29F040B	Yes	Yes	Atmel is a page-program device and the sector architecture is different. Spansion offers 55ns access time.
Atmel	AT49BV040B	4	4.5-5.5, (2.7 to 5.5V)	-	x8	Boot Sector	55	32-Pin PLCC 32-Pin TSOP 32-Pin VSOP	-40 to +85C	Am29F040B	Yes	Yes	Atmel device operates from 2.7 to 5.5V. This cross is to a 5V Spansion device. Sector architecture is different. This Atmel device is on the matured products list and should not be considered for new designs.
EON	EN29F010	1	4.5-5.5	-	x8	Uniform Sector	45, 55, 70, 90	32-Pin PDIP 32-Pin PLCC 32-Pin TSOP	0 to +70C -40 to +85C	Am29F010B	Yes	Yes	-
Macronix	MX29F200CT/B	2	4.5-5.5	-	x8, x16	Boot Sector	70, 90	44-Pin SO 48-Pin TSOP 48-Pin RTSOP	-40 to +85C	Am29F200B	Yes	Yes	Spansion offers 45ns access time.
Macronix	MX29F400CT/B	4	4.5-5.5	-	x8, x16	Boot Sector	70, 90	44-Pin SO 48-Pin TSOP	0 to +70C -40 to +85C	Am29F400B	Yes	Yes	Spansion offers 45ns access time.
Macronix	MX29F040C	4	4.5-5.5	-	x8	Uniform Sector	70, 90	32-Pin PLCC 32-Pin TSOP	-40 to +85C	Am29F040B	Yes	Yes	Spansion offers 55ns access time.
Macronix	MX29F800C T/B	8	4.5-5.5	-	x8, x16	Boot Sector	70, 90	44-Pin SO 48-Pin TSOP 48-Ball TFBGA	-40 to +85C	Am29F800B	Yes	Yes	Spansion offers 55ns access time.

Parallel 1.8V

Parallel 3V

Parallel 5V

Serial

MCP

Manufacturer	Device	Density (Mb)	Voltage (V)	VIO (V)	Bus Width	Sector Type	Initial Access Times (ns)	Packages	Temp Range	Recommended Spansion OPN	Pin Compatible	Software Compatible	Notes
Numonyx	M29F200F T/B	2	4.5-5.5	-	x8, x16	Boot Sector	55	44-Pin SO 48-Pin TSOP	-40 to +85C -40 to +125C	Am29F200B	Yes	Yes	Spansion offers 45ns access time.
Numonyx	M29F400F T/B	4	4.5-5.5	-	x8, x16	Boot Sector	55	44-Pin SO 48-Pin TSOP	-40 to +85C -40 to +125C	Am29F400B	Yes	Yes	Spansion offers 45ns access time.
Numonyx	M29F800F T/B	8	4.5-5.5	-	x8, x16	Boot Sector	55	44-Pin SO 48-Pin TSOP 48-Ball TFBGA	-40 to +85C -40 to +125C	Am29F800B	Yes	Yes	-
Numonyx	M29F160F T/B	16	4.5-5.5	-	x8, x16	Boot Sector	55	44-Pin SO 48-Pin TSOP	-40 to +85C -40 to +125C	Am29F160D	Yes	Yes	-
SST	SST29EE512	512K	4.5-5.5	-	x8	Uniform Sector	70	32-Pin PLCC 32-Pin TSOP 32-Pin PDIP	0 to +70C -40 to +85C	Am29F010B	Yes	Yes	Different densities – SST pin out lack highest address bit, different sector architecture. SST is a page-program device. Spansion offers 45ns access time.
SST	SST29EE010	1	4.5-5.5	-	x8	Uniform Sector	70, 90	32-Pin PLCC 32-Pin TSOP 32-Pin PDIP	0 to +70C -40 to +85C	Am29F010B	Yes	Yes	SST is a page-program device and has different command sets and sector architecture. Spansion offers 45ns access time.
SST	SST39SF010A	1	4.5-5.5	-	x8	Uniform Sector	45, 70	32-Pin PLCC 32-Pin TSOP 32-Pin PDIP	0 to +70C -40 to +85C	Am29F010B	Yes	Yes	Sector architecture is different.
SST	SST39SF020A	2	4.5-5.5	-	x8	Uniform Sector	45, 70	32-Pin PLCC 32-Pin TSOP 32-Pin PDIP	0 to +70C -40 to +85C	Am29F002NB	Yes	Yes	Sector architecture is different.
SST	SST29SF020	2	4.5-5.5	-	x8	Uniform Sector	55	32-Pin PLCC 32-Pin TSOP	0 to +70C -40 to +85C	Am29F002NB	Yes	Yes	Sector architecture is different.
SST	SST39SF040	4	4.5-5.5	-	x8	Uniform Sector	45, 70	32-Pin PLCC 32-Pin TSOP 32-Pin PDIP	0 to +70C -40 to +85C	Am29F040B	Yes	Yes	Sector architecture is different.
SST	SST29SF040	4	4.5-5.5	-	x8	Uniform Sector	55	32-Pin PLCC 32-Pin TSOP	0 to +70C -40 to +85C	Am29F040B	Yes	Yes	Sector architecture is different.

Parallel 1.8V

Parallel 3V

Parallel 5V

Serial

MCP

	Manufacturer	Device	Density (Mb)	Voltage (V)	VIO (V)	Bus Width	Sector Type	Clock Frequency	Packages	Temp Range	Recommended Spansion OPN	Pin Compatible	Software Compatible	Notes
	AMIC	A25L032	32	2.7-3.6	N/A	x1, x2	Uniform 4KB /w 64KB Blocks	100MHz	8-Pin SO 208mil 16-Pin SO 300mil 8-Pin PDIP 300mil	-40 to +85C	S25FL032P	Yes	Yes	Package, pinout and core command set compatible. Different sector architecture.
	AMIC	A25LQ032	32	2.7-3.6	N/A	x1, x2, x4	Uniform 4KB /w 64KB Blocks	100MHz	8-Pin SO 208mil 16-Pin SO 300mil 8-Pin PDIP 300mil	-40 to +85C	S25FL032P	Yes	Yes	Package, pinout and core command set compatible. Different sector architecture.
	Atmel	AT25DF321	32	2.7-3.6	N/A	x1	Uniform 4KB /w 32KB Blocks & 64KB Blocks	70MHz (@15pF) 66MHz (@30pF)	8-Pin SO 208mil 16-Pin SO 300mil	-40 to +85C	S25FL032P	Yes	Yes	Atmel part does not have HOLD#. Atmel offers individual sector protection. Core command set compatible. Different sector architecture.
	Atmel	AT25DF321A	32	2.7-3.6	N/A	x1, x2	Uniform 4KB /w 32KB Blocks & 64KB Blocks	RapidS: 100MHz (@15pF) x1, x2: 85MHz (@15pF)	8-Pin SO 208mil 8-Land SON 6x5	-40 to +85C	S25FL032P	Yes	Yes	Atmel offers individual sector protection. Atmel device has RapidS mode which is a non-standard SPI -based operation. Core command set compatible. Different sector architecture.
	Atmel	AT26DF321	32	2.7-3.6	N/A	x1	Uniform 4KB /w 32KB Blocks & 64KB Blocks	66MHz	8-Pin SO 208mil 16-Pin SO 300mil	-40 to +85C	S25FL032P	Yes	Yes	Atmel offers individual sector protection. Core command set compatible. Different sector architecture.
	Atmel	AT25DF641	64	2.7-3.6	N/A	x1	Uniform 4KB /w 32KB Blocks & 64KB Blocks	RapidS: 100MHz (@15pF) x1, x2: 85MHz (@15pF)	8-Land SON 6x8 16-Pin SO 300mil	-40 to +85C	S25FL064P	Yes	Yes	Atmel offers individual sector protection. Atmel device has RapidS mode which is a non-standard SPI -based operation. Core command set compatible. Different sector architecture.
Parallel 1.8V	EON	EN25P32	32	2.7-3.6	N/A	x1	Uniform 64KB	100MHz (@20pF, 3.0-3.6V) 75MHz (@30pF, 2.7-3.6V)	8-Pin SO 208mil 16-Pin SO 300mil 8-Land SON 6x5	-40 to +85C	S25FL032P	Yes	Yes	Package, pinout and core command set compatible. This EON device is EOL.
	EON	EN25B32	32	2.7-3.6	N/A	x1	Split sectors (2x4KB, 1x8KB, 1x16KB, 1x32KB, 63x64KB)	100MHz (@20pF, 3.0-3.6V) 75MHz (@30pF, 2.7-3.6V)	8-Pin SO 208mil 16-Pin SO 300mil 8-Land SON 6x5 8-Pin PDIP 300mil	-40 to +85C	S25FL032P	Yes	Yes	S25FL032P is pin-compatible with 8-pin/16-pin SO and 8-Land SON 6x5. This EON device is EOL.
Parallel 3V	EON	EN25F32	32	2.7-3.6	N/A	x1	Uniform 4KB /w 64KB Blocks	100MHz (@20pF) 75MHz (@30pF)	8-Pin SO 208mil 16-Pin SO 300mil 8-Land SON 6x5 8-Pin PDIP 300mil	-40 to +85C	S25FL032P	Yes	Yes	S25FL032P is pin-compatible with 8-pin/16-pin SO and 8-Land SON 6x5. Core command set compatible. Different sector architecture.
	EON	EN25Q32A	32	2.7-3.6	N/A	x1, x2, x4	Uniform 4KB /w 64KB Blocks	100MHz (@20pF) x2, x4 mode: 80MHz (@30pF)	8-Pin SO 208mil 8-Land SON 6x5 8-Pin PDIP 300mil	-40 to +85C	S25FL032P	Yes	Yes	S25FL032P is pin-compatible with 8-pin and 8-Land SON 6x5. Core command set compatible. Different sector architecture.
Parallel 5V	EON	EN25B64	64	2.7-3.6	N/A	x1	Split sectors (2x4KB, 1x8KB, 1x16KB, 1x32KB, 127x64KB)	100MHz	16-Pin SO 300mil	-40 to +85C	S25FL064P	Yes	Yes	Package, pinout and core command set compatible. Different sector architecture.
	EON	EN25P64	64	2.7-3.6	N/A	x1	Uniform 64KB	100MHz	16-Pin SO 300mil	-40 to +85C	S25FL064P	Yes	Yes	Package, pinout and core command set compatible. Different sector architecture.
Serial	EON	EN25Q64	64	2.7-3.6	N/A	x1, x2, x4	Uniform 4KB	104MHz (@20pF) x2, x4 mode: 50MHz (@30pF)	8-Pin SO 208mil 16-Pin SO 300mil 8-Land SON 6x5 or 8x6	-40 to +85C	S25FL064P	Yes	Yes	Package, pinout and core command set compatible. Different sector architecture.
	ESMT	F25L32PA	32	2.7-3.6	NA	x1, x2	Uniform 4KB /w 64KB Blocks	100MHz (@15pF, 3.0-3.6V) 86MHz (@15pF, 3.0-3.6V) 50MHz (@30pF, 2.7-3.6V)	8-Pin SO 208mil 16-Pin SO 300mil	-40 to +85C	S25FL032P	Yes	Yes	Package, pinout and core command set compatible. Different sector architecture.
MCP	ESMT	F25L32QA	32	2.7-3.6	NA	x1, x2, x4	Uniform 4KB /w 64KB Blocks	100MHz (@15pF, 3.0-3.6V) 86MHz (@15pF, 3.0-3.6V) 50MHz (@30pF, 2.7-3.6V)	8-Pin SO 208mil 16-Pin SO 300mil	-40 to +85C	S25FL032P	Yes	Yes	Package, pinout and core command set compatible. Different sector architecture.
	Macronix	MX25L3205D	32	2.7-3.6	N/A	x1 or x2	Uniform 4KB /w 64KB Blocks	86MHz (@15pF) 66MHz (@30pF) x2 mode: 50MHz (@15pF)	8-Pin SO 208mil 16-Pin SO 300mil 8-Land SON 6x5 or 4x4 8-Pin PDIP 300mil	-40 to +85C	S25FL032P	Yes	Yes	S25FL032P is pin-compatible with 8-pin/16-pin SO and 8-Land SON 6x5. Macronix part does not support x4 mode. Different sector architecture.

	Manufacturer	Device	Density (Mb)	Voltage (V)	VIO (V)	Bus Width	Sector Type	Clock Frequency	Packages	Temp Range	Recommended Spansion OPN	Pin Compatible	Software Compatible	Notes
	Macronix	MX25L3225D	32	2.7-3.6	N/A	x1, x2 or x4	Uniform 4KB /w 64KB Blocks	104MHz x2 or x4 mode: 75MHz	8-Pin SO 208mil	-40 to +85C	S25FL032P	Yes	Yes	Macronix part does not have ACC or HOLD#. Different sector architecture.
	Macronix	MX25L3235D	32	2.7-3.6	N/A	x1, x2 or x4	Uniform 4KB /w 64KB Blocks	104MHz x2 or x4 mode: 75MHz	8-Pin SO 208mil 16-Pin SO 300mil 8-Land SON 6x5 or 8x6	-40 to +85C	S25FL032P	Yes	Yes	Macronix part does not have ACC or HOLD#. Different sector architecture.
	Macronix	MX25L3236D	32	2.7-3.6	N/A	x1, x2 or x4	Uniform 4KB /w 64KB Blocks	104MHz x2 or x4 mode: 75MHz	8-Pin SO 208mil	-40 to +85C	S25FL032P	Yes	Yes	Macronix part does not have ACC or HOLD#. Different sector architecture.
	Macronix	MX25L3237D	32	2.7-3.6	Yes	x1, x2 or x4	Uniform 4KB /w 64KB Blocks	VI/O=2.7-3.6V: 86MHz (@15pF) 66MHz (@30pF) x2 or x4 mode: 75MHz (@15pF) VI/O=1.65-2.7V: 40MHz (15@pF) x2 or x4 mode: 33MHz (15@pF)	16-Pin SO 300mil 8-Land SON 6x5	-40 to +85C	S25FL032P	Yes	Yes	Macronix 16-Pin SO package uses pin 3 as VIO. Macronix 8-Land SON does not support x4 mode. Macronix part does not have ACC or HOLD#. Different sector architecture.
	Macronix	MX25L6405D	64	2.7-3.6	N/A	x1 or x2	Uniform 4KB /w 64KB Blocks	86MHz (@15pF) 66MHz (@30pF) x2 mode: 50MHz (@15pF)	16-Pin SO 300mil 8-Land SON 6x8	-40 to +85C	S25FL064P	Yes	Yes	Macronix part does not support x4 mode. Different sector architecture.
Parallel 1.8V	Macronix	MX25L6436E	64	2.7-3.6	N/A	x1, x2 or x4	Uniform 4KB /w 32KB Blocks & 64KB Blocks	104MHz x2 or x4 mode: 70MHz	8-Pin SO 208mil	-40 to +85C	S25FL064P	Yes	Yes	Macronix part does not have ACC or HOLD#. Different sector architecture.
	Macronix	MX25L6445E	64	2.7-3.6	N/A	x1, x2 or x4, DTR	Uniform 4KB /w 32KB Blocks & 64KB Blocks	104MHz x2 or x4 mode: 70MHz Double Transfer Rate Mode: x1, x2 or x4: 50MHz	8-Pin SO 208mil 16-Pin SO 300mil 8-Land SON 8x6	-40 to +85C	S25FL064P	Yes	Yes	Macronix part has Double Transfer Rate Mode where address and data is latched on both SCK rising and falling edge. Macronix part does not have ACC or HOLD#. Different sector architecture.
Parallel 3V	Macronix	MX25L6465E	64	2.7-3.6	N/A	x1, x2 or x4, DTR	Uniform 4KB /w 32KB Blocks & 64KB Blocks	104MHz x2 or x4 mode: 70MHz Double Transfer Rate Mode: x1, x2 or x4: 50MHz	8-Pin SO 208mil 16-Pin SO 300mil 8-Land SON 8x6	-40 to +85C	S25FL064P	Yes	Yes	Macronix part has Double Transfer Rate Mode where address and data is latched on both SCK rising and falling edge. Macronix part does not have ACC or HOLD#. Different sector architecture.
	Macronix	MX25L12805D	128	2.7-3.6	N/A	x1	Uniform 4KB /w 64KB Blocks	50MHz	16-Pin SO 300mil	-40 to +85C	S25FL128P	Yes	Yes	Spansion offers faster performance at 104MHz clock rate. Different sector architecture.
Parallel 5V	Macronix	MX25L12836E	128	2.7-3.6	N/A	x1, x2 or x4, Parallel x8	Uniform 4KB /w 32KB Blocks & 64KB Blocks	104MHz x2 or x4 mode: 70MHz	16-Pin SO 300mil	-40 to +85C	S25FL129P	Yes	Yes	Macronix part does not have ACC or HOLD#. Macronix part has parallel x8 mode. Different sector architecture.
	Macronix	MX25L12845E	128	2.7-3.6	N/A	x1, x2 or x4, DTR	Uniform 4KB /w 32KB Blocks & 64KB Blocks	104MHz x2 or x4 mode: 70MHz Double Transfer Rate Mode: x1, x2 or x4: 50MHz	16-Pin SO 300mil 8-Land SON 8x6	-40 to +85C	S25FL129P	Yes	Yes	Macronix part has Double Transfer Rate Mode where address and data is latched on both SCK rising and falling edge. Macronix part does not have ACC or HOLD#. Different sector architecture.
Serial	Macronix	MX25L12865E	128	2.7-3.6	N/A	x1, x2 or x4, DTR, Parallel x8	Uniform 4KB /w 32KB Blocks & 64KB Blocks	104MHz x2 or x4 mode: 70MHz Double Transfer Rate Mode: x1, x2 or x4: 50MHz	16-Pin SO 300mil 8-Land SON 8x6	-40 to +85C	S25FL129P	Yes	Yes	Macronix part has Double Transfer Rate Mode where address and data is latched on both SCK rising and falling edge. Macronix part does not have ACC or HOLD#. Macronix part has parallel x8 mode (16-Pin SO 300mil only). Different sector architecture.
	Numonyx	M25P32	32	2.7-3.6	N/A	x1	Uniform 64KB	75MHz	8-Pin SO 208mil, 16-Pin SO 300mil 8-Land SON 6x5 8-Land SON 6x8	-40 to +85C -40 to +125C	S25FL032P	Yes	Yes	Package, pinout and command set compatible. Different sector architecture.
MCP	Numonyx	M25PX32	32	2.7-3.6	N/A	x1, x2	Uniform 4KB /w 64KB Blocks	75MHz	8-Pin SO 208mil 16-Pin SO 300mil 8-Land SON 6x5 TBGA 6x8	-40 to +85C -40 to +125C	S25FL032P	Yes	Yes	Package, pinout and core command set compatible. Different sector architecture.

	Manufacturer	Device	Density (Mb)	Voltage (V)	VIO (V)	Bus Width	Sector Type	Clock Frequency	Packages	Temp Range	Recommended Spansion OPN	Pin Compatible	Software Compatible	Notes
	Numonyx	M25P64	64	2.7-3.6	N/A	x1	Uniform 64KB	75MHz	16-Pin SO 300mil 8-Land SON 6x8	-40 to +85C -40 to +125C	S25FL064P	Yes	Yes	Package, pinout and core command set compatible. Different sector architecture.
	Numonyx	M25PX64	64	2.7-3.6	N/A	x1, x2	Uniform 4KB /w 64KB Blocks	75MHz	8-Land SON 6x8 16-Pin SO 300mil TBGA 6x8	-40 to +85C -40 to +125C	S25FL064P	Yes	Yes	Package, pinout and core command set compatible. Different sector architecture.
	Numonyx	M25P128	128	2.7-3.6	N/A	x1	Uniform 256KB	50MHz	16-Pin SO 300mil 8-Land SON 6x8	-40 to +85C	S25FL128P	Yes	Yes	Package, pinout, sector size and command set compatible. Spansion offers faster performance at 104MHz clock rate. Spansion also offers a uniform 64KB sector device option.
	SST	SST25VF032B	32	2.7-3.6	N/A	x1	Uniform 4KB /w 32KB Blocks & 64KB Blocks	80MHz	8-Pin SO 208mil 8-Land SON 6x5	-40 to +85C	S25FL032P	Yes	Yes	Package, pinout and core command set compatible. Different sector architecture.
	SST	SST26VF032	32	2.7-3.6	N/A	x1, x4	Uniform 4KB /w 8x8KB, 2x32KB and 62x64KB Blocks	80MHz	8-Pin SO 208mil 8-Land SON 6x5	-40 to +85C	S25FL032P	Yes	Yes	Package, pinout and core command set compatible. SST device offers individual block protection. Different sector architecture.
	SST	SST25VF064C	64	2.7-3.6	N/A	x1, x2	Uniform 4KB /w 32KB Blocks & 64KB Blocks	x1: 80MHz x2: 75MHz	8-Pin SO 208mil 16-Pin SO 300mil 8-Land SON 8x6	0 to +70C -40 to +85C	S25FL064P	Yes	Yes	Package, pinout and core command set compatible. Different sector architecture.
Parallel 1.8V	Winbond	W25X32AV	32	2.7-3.6	N/A	x1 or x2	Uniform 4KB /w 64KB Blocks	75MHz	8-Pin SO 208mil 8-Pin PDIP 300mil 16-Pin SO 300mil 8-Land SON 6x5	-40 to +85C	S25FL032P	Yes	Yes	S25FL032P is pin-compatible with 8-pin/16-pin SO and 8-Land SON 6x5. This Winbond product has been removed from the Winbond product list. Different sector architecture.
	Winbond	W25X32V	32	2.7-3.6	N/A	x1 or x2	Uniform 4KB /w 64KB Blocks	75MHz	8-Pin SO 208mil 8-Pin PDIP 300mil 16-Pin SO 300mil 8-Land SON 8x6	-40 to +85C	S25FL032P	Yes	Yes	S25FL032P is pin-compatible with 8-pin/16-pin SO and 8-Land SON 8x6. This Winbond product has been removed from the Winbond product list. Different sector architecture.
Parallel 3V	Winbond	W25X32BV	32	2.7-3.6	N/A	x1 or x2	Uniform 4KB /w 32KB Blocks & 64KB Blocks	80MHz (2.7-3.6V) 104MHz (3.0-3.6V)	8-Pin SO 208mil 8-Pin PDIP 300mil 16-Pin SO 300mil 8-Land SON 6x5	-40 to +85C	S25FL032P	Yes	Yes	S25FL032P is pin-compatible with 8-pin/16-pin SO and 8-Land SON 6x5. Different sector architecture.
	Winbond	W25Q32V	32	2.7-3.6	N/A	x1, x2, or x4	Uniform 4KB /w 32KB Blocks & 64KB Blocks	80MHz	8-Pin SO 208mil 8-Land SON 6x5 16-Pin SO 300mil	-40 to +85C	S25FL032P	Yes	Yes	Package, pinout and core command set compatible. This Winbond product has been removed from the Winbond product list. Different sector architecture.
Parallel 5V	Winbond	W25Q32BV	32	2.7-3.6	N/A	x1, x2, or x4	Uniform 4KB /w 32KB Blocks & 64KB Blocks	x1, x2, x4: 80MHz (2.7-3.6V) x1, x2: 104MHz (3.0-3.6V)	8-Pin SO 208mil 8-Pin PDIP 300mil 16-Pin SO 300mil 8-Land SON 6x5	-40 to +85C	S25FL032P	Yes	Yes	S25FL032P is pin-compatible with 8-pin/16-pin SO and 8-Land SON 6x5. Different sector architecture.
	Winbond	W25X64V	64	2.7-3.6	N/A	x1 or x2	Uniform 4KB /w 64KB Blocks	75MHz	8-Pin PDIP 300mil 16-Pin SO 300mil 8-Land SON 6x8	-40 to +85C	S25FL064P	Yes	Yes	S25FL032P is pin-compatible with 16-pin SO and 8-Land SON 6x8. This Winbond product has been removed from the Winbond product list. Different sector architecture.
Serial	Winbond	W25X64BV	64	2.7-3.6	NA	x1 or x2	Uniform 4KB /w 32KB Blocks & 64KB Blocks	80MHz	8-Pin SO 208mil 8-Pin PDIP 300mil 16-Pin SO 300mil 8-Land SON 6x8	-40 to +85C	S25FL064P	Yes	Yes	S25FL032P is pin-compatible with 8-pin/16-pin SO and 8-Land SON 6x8. Different sector architecture.
	Winbond	W25Q64BV	64	2.7-3.6	NA	x1, x2, or x4	Uniform 4KB /w 32KB Blocks & 64KB Blocks	80MHz	8-Pin SO 208mil 16-Pin SO 300mil 8-Land SON 6x8	-40 to +85C	S25FL064P	Yes	Yes	Package, pinout and core command set compatible. Different sector architecture.
MCP	Winbond	W25Q128BV	128	2.7-3.6	NA	x1, x2, or x4	Uniform 4KB /w 32KB Blocks & 64KB Blocks	80MHz (2.7-3.6V) 104MHz (3.0-3.6V)	16-Pin SO 300mil 8-Land SON 6x8	-40 to +85C	S25FL128P	Yes	Yes	Package, pinout and core command set compatible. S25FL128P is an x1 device. Different sector architecture.

	Manufacturer	Device	NOR	pSRAM	DRAM	Sector	VCC (V)	VIO (V)	Bus Type	Bus Width	Packages	Recommended Spansion OPN	Notes
Parallel 1.8V	Numonyx	PF38F5060M0Y0C	512Mb	128Mb	–	Uniform	1.8	1.8	ADP	x16	107-ball / 8x11 mm	S71WS512PD0	Contact factory for best replacement option.
	Numonyx	PF38F5060M0Y3C	512Mb	128Mb	–	Uniform	1.8	1.8	ADM	x16	107-ball / 8x11 mm	S71NS512RD0	Contact factory for best replacement option.
	Numonyx	PF38F5060M0Y3D	512Mb	128Mb	–	Uniform	1.8	1.8	ADM	x16	56-ball / 8x11 or 8x8 mm	S71NS512RD0	Contact factory for best replacement option.
	Numonyx	PF38F5060M0Y0Y	512Mb	128Mb	–	Uniform	1.8	1.8	ADP	x16	84-ball / 8x10 mm	S71WS512PD0	Contact factory for best replacement option.
	Numonyx	PF38F5060M0Y1Y	512Mb	128Mb	–	Uniform	1.8	1.8	ADM	x16	84-ball / 8x10 mm	S71NS512RD0	Contact factory for best replacement option.
	Numonyx	JZ58F0085M0Y0G	512Mb	128Mb	–	Uniform	1.8	1.8	ADP	x16	104-ball PoP / 10x10 mm	S71WS512PD0	Contact factory for best replacement option.
	Numonyx	PF38F5050M0Y0C	512Mb	64Mb	–	Uniform	1.8	1.8	ADP	x16	107-ball / 8x11 mm	S71WS512PC0	Contact factory for best replacement option.
	Numonyx	PF38F5070M0Y0B	512Mb	–	256Mb SDR	Uniform	1.8	1.8	ADP	x16	105-ball / 9x11 mm	S72WS512PE0	Contact factory for best replacement option.
	Numonyx	PF38F5070M0Y1E	512Mb	–	256Mb DDR	Uniform	1.8	1.8	ADM	x16	133-ball / 8x8 mm	S72NS512RE0	Contact factory for best replacement option.
	Numonyx	PF38F5070M0Y1V	512Mb	–	256Mb DDR	Uniform	1.8	1.8	ADM	x16	165-ball / 9x11 mm	S72NS512RE0	Contact factory for best replacement option.
	Numonyx	PF58F0058M0Y1W	512Mb	–	256Mb DDR	Uniform	1.8	1.8	ADM	x16	165-ball / 9x11 mm	S72NS512RE0	Contact factory for best replacement option.
Parallel 3V	Numonyx	PF38F5060M0Y1E	512Mb	–	128Mb DDR	Uniform	1.8	1.8	ADM	x16	133-ball / 8x8 mm	S72NS512RD0	Contact factory for best replacement option.
	Numonyx	PF38F0065M0Y1W	512Mb	–	128Mb DDR	Uniform	1.8	1.8	ADM	x16	165-ball / 9x11 mm	S72NS512RD0	Contact factory for best replacement option.
	Numonyx	PF38F4060M0Y3C	256Mb	128Mb	–	Uniform	1.8	1.8	ADM	x16	107-ball / 8x10 mm	S71VS256RD0	Contact factory for best replacement option.
	Numonyx	PF38F4060M0Y0C	256Mb	128Mb	–	Uniform	1.8	1.8	ADP	x16	107-ball / 8x10 mm	S71WS256PD0	Contact factory for best replacement option.
Parallel 5V	Numonyx	PF38F4060M0Y0Y	256Mb	128Mb	–	Uniform	1.8	1.8	ADP	x16	84-ball / 8x10 mm	S71WS256PD0	Contact factory for best replacement option.
	Numonyx	PF38F4060M0Y1Y	256Mb	128Mb	–	Uniform	1.8	1.8	ADM	x16	84-ball / 8x10 mm	S71VS256RD0	Contact factory for best replacement option.
	Numonyx	PF38F4060M0Y3D	256Mb	128Mb	–	Uniform	1.8	1.8	ADM	x16	56-ball / 8x8 mm	S71VS256RD0	Contact factory for best replacement option.
	Numonyx	PF38F4050M0Y0C	256Mb	64Mb	–	Uniform	1.8	1.8	ADP	x16	107-ball / 8x10 mm	S71WS256PC0	Contact factory for best replacement option.
	Numonyx	PF38F4050M0Y3C	256Mb	64Mb	–	Uniform	1.8	1.8	ADM	x16	107-ball / 8x10 mm	S71NS256PC0 / S71VS256RC0	Contact factory for best replacement option.
	Numonyx	PF38F4050M0Y0Y	256Mb	64Mb	–	Uniform	1.8	1.8	ADP	x16	84-ball / 8x10 mm	S71WS256PC0	Contact factory for best replacement option.
Serial	Numonyx	PF38F4050M0Y1Y	256Mb	64Mb	–	Uniform	1.8	1.8	ADM	x16	84-ball / 8x10 mm	S71NS256PC0 / S71VS256RC0	Contact factory for best replacement option.
	Numonyx	PF38F4050M0Y3D	256Mb	64Mb	–	Uniform	1.8	1.8	ADM	x16	56-ball / 8x8 or 7.7x6.2 mm	S71NS256PC0 / S71VS256RC0	Contact factory for best replacement option.
	Numonyx	PF38F4050M0Y0Q	256Mb	64Mb	–	Uniform	1.8	1.8	ADP	x16	88-ball / 8x10 mm	S71WS256PC0	Contact factory for best replacement option.
	Numonyx	PF38F4050M0Y1Q	256Mb	64Mb	–	Uniform	1.8	1.8	ADM	x16	88-ball / 8x10 mm	S71NS256PC0 / S71VS256RC0	Contact factory for best replacement option.
MCP	Numonyx	PF38F4060M0Y0B	256Mb	–	128Mb SDR	Uniform	1.8	1.8	ADP	x16	105-ball / 9x11 mm	S72NS256PD0	Contact factory for best replacement option.
	Numonyx	PF38F3050M0Y0C	128Mb	64Mb	–	Uniform	1.8	1.8	ADP	x16	107-ball / 8x10 mm	S71WS128PC0	Contact factory for best replacement option.
	Numonyx	PF38F3050M0Y0Y	128Mb	64Mb	–	Uniform	1.8	1.8	ADP	x16	84-ball / 8x10 mm	S71WS128PC0	Contact factory for best replacement option.
	Numonyx	PF38F3050M0Y1Y	128Mb	64Mb	–	Uniform	1.8	1.8	ADM	x16	84-ball / 8x10 mm	S71NS128PC0	Contact factory for best replacement option.
	Numonyx	PF38F3050M0Y3D	128Mb	64Mb	–	Uniform	1.8	1.8	ADM	x16	56-ball / 6.2x7.7 mm	S71NS128PC0	Contact factory for best replacement option.
	Numonyx	PF38F3050M0Y3Q	128Mb	64Mb	–	Uniform	1.8	1.8	ADM	x16	88-ball / 8x10 mm	S71NS128PC0	Contact factory for best replacement option.
	Numonyx	PF38F3050M0Y0Q	128Mb	64Mb	–	Uniform	1.8	1.8	ADP	x16	88-ball / 8x10 mm	S71WS128PC0	Contact factory for best replacement option.
Numonyx	PF38F3040M0Y0C	128Mb	32Mb	–	Uniform	1.8	1.8	ADP	x16	107-ball / 8x10 mm	S71WS128PB0	Contact factory for best replacement option.	
Numonyx	PF38F3040M0Y3D	128Mb	32Mb	–	Uniform	1.8	1.8	ADM	x16	56-ball / 6.2x7.7 mm	S71NS128PB0	Contact factory for best replacement option.	
Numonyx	PF38F3040M0Y3Q	128Mb	32Mb	–	Uniform	1.8	1.8	ADM	x16	88-ball / 8x10 mm	S71NS128PB0	Contact factory for best replacement option.	

Bus Types – ADP: Address Data Parallel, ADM: Address Data Multiplexed, AADM: Address-High, Address-Low, Data Multiplexed

	Manufacturer	Device	NOR	pSRAM	DRAM	Sector	VCC (V)	VIO (V)	Bus Type	Bus Width	Packages	Recommended Spansion OPN	Notes
	Numonyx	PF38F3040M0Y0Q	128Mb	32Mb	–	Uniform	1.8	1.8	ADP	x16	88-ball / 8x10 mm	S71WS128PB0	Contact factory for best replacement option.
	Numonyx	PF38F3060M0Y1E	128Mb	–	128Mb DDR	Uniform	1.8	1.8	ADM	x16	133-ball / 8x8 mm	S72NS128PD0	Contact factory for best replacement option.
	Numonyx	PF38F5070L0YB	512Mb	–	256Mb SDR	Uniform	1.8	1.8	ADP	x16	105-ball / 9x11 mm	S72WS512PE0	Contact factory for best replacement option.
	Numonyx	JZ58F0046L0YGG	512Mb	–	256Mb DDR	Uniform	1.8	1.8	ADM	x16	128-ball PoP / 12x12 mm	S72NS512RE0	Contact factory for best replacement option.
	Numonyx	PF38F4470L0YBBE	2 x 256Mb	–	256Mb SDR	Boot	1.8	1.8	ADP	x16	105-ball / 9x11 mm	S72WS512PE0	Contact factory for best replacement option.
	Numonyx	PF38F4050L0YQE	256Mb	64Mb	–	Boot	1.8	1.8	ADM	x16	88-ball / 8x10 mm	S71NS256PC0 / S71VS256RC0	Contact factory for best replacement option.
	Numonyx	M36L0R8060L/U3ZAM	256Mb	64Mb	–	Boot	1.8	1.8	ADM	x16	88-ball / 8x10 mm	S71NS256PC0 / S71VS256RC0	Contact factory for best replacement option.
	Numonyx	M36L0R8060B/T9ZAQ	256Mb	64Mb	–	Boot	1.8	1.8	ADP	x16	88-ball / 8x10 mm	S71WS256PC0	Contact factory for best replacement option.
	Numonyx	M36L0T8060B/T3ZAQ	256Mb	64Mb	–	Boot	1.8	3	ADP	x16	88-ball / 8x10 mm	S71WS256PC0	Contact factory for best replacement option.
	Numonyx	M36L0T8060B/T3ZSP	256Mb	64Mb	–	Boot	1.8	3	ADP	x16	80-ball / 7.7x9 mm	S71WS256PC0	Contact factory for best replacement option.
	Numonyx	PF38F4040L0YWAE	256Mb	32Mb	–	Boot	1.8	1.8	ADM	x16	44-ball / 7.7x6.2 mm	S71NS256PB0	Contact factory for best replacement option.
Parallel 1.8V	Numonyx	PF38F4040L0YWAF	256Mb	32Mb	–	Boot	1.8	1.8	ADM	x16	44-ball / 7.7x6.2 mm	S71NS256PB0	Contact factory for best replacement option.
	Numonyx	PF38F4040L0YWAG	256Mb	32Mb	–	Boot	1.8	1.8	ADM	x16	44-ball / 7.7x6.2 mm	S71NS256PB0	Contact factory for best replacement option.
	Numonyx	M36L0R8050L/U2ZB	256Mb	32Mb	–	Boot	1.8	1.8	ADM	x16	44-ball / 7.7x9 mm	S71NS256PB0	Contact factory for best replacement option.
	Numonyx	PF38F4060L0Y1EE	256Mb	–	128Mb DDR	Boot	1.8	1.8	ADP	x16	133-ball / 8x8 mm	S72WS256PD0	Contact factory for best replacement option.
	Numonyx	M39L0R8070B1P5HF	256Mb	–	128Mb DDR	Boot	1.8	1.8	ADP	x16	160-ball PoP / 15x15 mm	S72WS256PD0	Contact factory for best replacement option.
Parallel 3V	Numonyx	M36L0R7060L/U3ZS	128Mb	64Mb	–	Boot	1.8	1.8	ADM	x16	56-ball / 8x6 mm	S71NS128PC0	Contact factory for best replacement option.
	Numonyx	M36L0R7060U3ZAM	128Mb	64Mb	–	Boot	1.8	1.8	ADM	x16	88-ball / 8x10 mm	S71NS128PC0	Contact factory for best replacement option.
	Numonyx	M36L0R7060B/T2ZAQ	128Mb	64Mb	–	Boot	1.8	1.8	ADP	x16	88-ball / 8x10 mm	S71WS128PC0	Contact factory for best replacement option.
	Numonyx	M36L0T7060B/T3ZAQ	128Mb	64Mb	–	Boot	1.8	3	ADP	x16	88-ball / 8x10 mm	S71WS128PC0	Contact factory for best replacement option.
	Numonyx	M36L0R7050B/T3ZAQ	128Mb	32Mb	–	Boot	1.8	1.8	ADP	x16	88-ball / 8x10 mm	S71WS128PB0	Contact factory for best replacement option.
Parallel 5V	Numonyx	M36L0R7050B/T4ZAQ	128Mb	32Mb	–	Boot	1.8	1.8	ADP	x16	88-ball / 8x10 mm	S71WS128PB0	Contact factory for best replacement option.
	Numonyx	M36L0R7050L/U3ZAM	128Mb	32Mb	–	Boot	1.8	1.8	ADM	x16	88-ball / 8x10 mm	S71NS128PB0	Contact factory for best replacement option.
	Numonyx	M36L0R7050L/U3ZS	128Mb	32Mb	–	Boot	1.8	1.8	ADM	x16	56-ball / 8x6 mm	S71NS128PB0	Contact factory for best replacement option.
	Numonyx	M36L0T7050B/T3ZAQ	128Mb	32Mb	–	Boot	1.8	3	ADP	x16	88-ball / 8x10 mm	S71WS128PB0	Contact factory for best replacement option.
Serial	Numonyx	M39L0R7070U3ZE	128Mb	–	128Mb DDR	Boot	1.8	1.8	ADM	x16	133-ball / 8x8 mm	S72NS128PD0	Contact factory for best replacement option.
	Numonyx	M39L0R7070U3P2W	128Mb	–	128Mb DDR	Boot	1.8	1.8	ADM	x16	128-ball PoP / 12x12 mm	S72NS128PD0	Contact factory for best replacement option.
MCP	SST	SST34WA32A3/A4	32Mb	16Mb	–	Boot	1.7-1.95	1.7-1.95	ADM	x16	56-ball	S71VS064R	Contact factory for best replacement option. SST does not recommend this device for new designs.
	SST	SST34WA3283/84	32Mb	8MB	–	Boot	1.7-1.95	1.7-1.95	ADM	x16	56-ball	S71VS064R	Contact factory for best replacement option. SST does not recommend this device for new designs.
	SST	SST34HF32A4	32Mb	16Mb	–	Boot	2.7-3.3	2.7-3.3	ADP	x8, x16	56-ball / 8x10 mm 62-ball / 8x10 mm	S71GL032NA0	S71GL032NA0 is pin-compatible with the 56-ball MCP. SST device is a dual-bank device.
	SST	SST34HF3282/84	32Mb	8Mb	–	Boot	2.7-3.3	2.7-3.3	ADP	x8, x16	56-ball / 8x10 mm 62-ball / 8x10 mm	S71GL032N80	S71GL032N80 is pin-compatible with the 56-ball MCP. SST device is a dual-bank device. SST does not recommend this device for new designs.

Bus Types – ADP: Address Data Parallel, ADM: Address Data Multiplexed, AADM: Address-High, Address-Low, Data Multiplexed

Manufacturer	Device	NOR	pSRAM	DRAM	Sector	VCC (V)	VIO (V)	Bus Type	Bus Width	Packages	Recommended Spansion OPN	Notes
SST	SST34HF3244	32Mb	4Mb	–	Boot	2.7-3.3	2.7-3.3	ADP	x8, x16	56-ball / 8x10 mm 62-ball / 8x10 mm	S71GL032N40	S71GL032N40 is pin-compatible with the 56-ball MCP. SST device is a dual-bank device. SST does not recommend this device for new designs.
SST	SST34HF1681J	16Mb	8Mb	–	Boot	2.7-3.3	2.7-3.3	ADP	x8, x16	56-ball / 8x10 mm 62-ball / 8x10 mm	S71GL032N80	S71GL032N80 is pin-compatible with the 56-ball MCP. SST device is a dual-bank device.
SST	SST34HF1641J	16Mb	4Mb	–	Boot	2.7-3.3	2.7-3.3	ADP	x8, x16	56-ball / 8x10 mm 62-ball / 8x10 mm	S71GL032N40	S71GL032N40 is pin-compatible with the 56-ball MCP. SST device is a dual-bank device.
Toshiba	TY00680002AAGD / TY00680003AAGD	256Mb	64Mb	–	Boot	1.7-1.95	1.7-1.95	ADP	x16	107-ball / 9x12 mm	S71WS256PC0 / S71WS256NC0	Contact factory for best replacement option.
Toshiba	TV00570002ADGB / TV00570003ADGB	128Mb	32Mb	–	Boot	2.7-3.3	2.7-3.3	ADP	x16	81-ball / 7x10 mm	S71PL127NB0	Contact factory for best replacement option.

Parallel 1.8V

Parallel 3V

Parallel 5V

Serial

MCP

Bus Types – ADP: Address Data Parallel, ADM: Address Data Multiplexed, AADM: Address-High, Address-Low, Data Multiplexed

SPANSION

915 Deguigne Drive
PO Box 3453
Sunnyvale, CA 94088-3453, USA
Tel 408-962-2500
1-866-SPANSION

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