

# SPANSION Flash Memory

RoHS Compliant This product is RoHS compliant.



## SPANSION SLC NAND FLASH

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Spansion Part No.	Package Type	Memory Size (Gbit)	Access Time (ns)	Architecture	Supply Voltage (V)	Maximum Operating Current (mA)	Timing Type	Price Each		
									1	25	100
797-34ML01G100TFI000	S34ML01G100TFI000	TSOP-48	1	45	128 M x 8	3	30	Asynchronous	3.14	3.06	2.97
797-34ML02G100TFI000	S34ML02G100TFI000	TSOP-48	2	45	256 M x 8	3	30	Asynchronous	4.07	3.96	3.85
797-34ML04G100TFI000	S34ML04G100TFI000	TSOP-48	4	45	512 M x 8	3	30	Asynchronous	6.86	6.67	6.49

## AMD BOOT/UNIFORM MEMORY FLASH

The Spansion F NOR Flash memory family is available in densities of 1 Mb through 32 Mb. Each device requires only a single 5V power supply for read and write functions and is entirely command set compatible with the JEDEC Flash standards. The Spansion F NOR Flash memory is one of the longest-supported Flash memories in the industry.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Spansion Part No.	Package Type	Page Access Time (Max)(ns)	Speed (ns)	Density	Bus Width	Sector Type	Supply Voltage (V)	Price Each		
									1	25	100
797-AM29F010B-55JI	AM29F010B-55JI	PL 032	55	55	8Mb	x8	Boot	5V	1.94	1.84	1.78
797-AM29F040B-90EF	AM29F040B-90EF	TSOP-32	90	90	4Mb	x4	Uniform	5V	2.14	2.03	1.96
797-AM29F080B-90EF	AM29F080B-90EF	TSOP-40	90	90	8Mb	x8	Uniform	5V	2.92	2.77	2.68
797-AM29F160DB-75EF	AM29F160DB-75EF	TSOP-48	75	75	16Mb	x16	Boot	5V	5.45	5.17	5.00
797-AM29F200BB-70EF	AM29F200BB-70EF	TSOP-48	70	-70	2Mb	x8/x16/x32	Boot	4.5-5.5	1.95	1.84	1.78
797-AM29F400BB-55EF	AM29F400BB-55EF	TSOP-48	55	55	4Mb	x4	Boot	5V	2.61	2.48	2.40
797-AM29F400BB-70EF	AM29F400BB-70EF	TSOP-48	70	-70	4Mb	x8	Boot	4.5-5.5	2.52	2.39	2.31
797-AM29F800BB-55EF	AM29F800BB-55EF	TSOP-48	55	55	8Mb	x8	Boot	5V	3.80	3.60	3.48
797-AM29F800BB-70EF	AM29F800BB-70EF	TSOP-48	70	-70	8Mb	x8	Boot	4.5-5.5	3.69	3.50	3.38
797-AM29F800BB-70SF	AM29F800BB-70SF	SO-44	70	70	8Mb	x8	Boot	5V	3.69	3.50	3.38
797-AM29F400BT-70SF	AM29F400BT-70SF	SO-44	45	90	4MB	x8/x16	Boot	5V	2.53	2.40	2.32

## MIRRORBIT® NOR PRODUCTS

The Spansion S29GL01G/512/256/128P are 3.0 volt MirrorBit™ Flash Products fabricated on 90nm process technology with Page-Mode interface. They feature a Writer Buffer that allows a maximum of 32 words/64 bytes to be programmed in one operation, resulting in faster effective programming time than standard programming algorithms.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Spansion Part No.	Package Type	Page Access Time (Max)(ns)	Speed (ns)	Density	Bus Width	Sector Type	Supply Voltage (V)	Price Each		
									1	25	100
797-S29GL128P90TFIR10	S29GL128P90TFIR10	TSOP-56	25	90	128Mb	x8/x16	Uniform	3.0-3.6	4.14	3.93	3.80
797-S29GL512P11TFI010	S29GL512P11TFI010	TSOP-56	25	110	512Mb	x8/x16	Uniform	2.7-3.6	11.45	10.86	10.50

## MIRRORBIT® ECLIPSE FLASH NON-VOLATILE MEMORY

The Spansion® S29GL01G/512/256/128S are MirrorBit Eclipse flash products fabricated on 65nm process technology. These devices offer a fast page access time as fast as 15 ns with a corresponding random access time as a Write Buffer that allows a maximum of 256 words/512 bytes to be programmed in one programming time than standard programming algorithms. This makes these devices ideal for today's embedded applications that require higher density, better performance and lower power consumption.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Spansion Part No.	Package Type	Page Access Time (Max)(ns)	Speed (ns)	Density	Bus Width	Sector Type	Supply Voltage (V)	Price Each		
									1	25	100
797-29GL128S90TFI010	S29GL128S90TFI010	TSOP-56	15	90	128Mb	x8/x16/x32	Uniform	2.7-3.6	3.54	3.36	3.25
797-29GL128S90TFI020	S29GL128S90TFI020	TSOP-56	15	90	128Mb	x8/x16/x32	Uniform	2.7-3.6	3.54	3.36	3.25
797-29GL128S10TFI010	S29GL128S10TFI010	TSOP-56	25	100	128Mb	x8/x16/x32	Uniform	2.7-3.6	3.30	3.13	3.03
797-29GL128S10TFI020	S29GL128S10TFI020	TSOP-56	25	100	128Mb	x8/x16/x32	Uniform	2.7-3.6	3.30	3.13	3.03
797-29GL128S11TFI010	S29GL128S11TFI010	TSOP-56	25	110	128Mb	x8/x16/x32	Uniform	2.7-3.6	3.54	3.36	3.25
797-29GL128S11TFI020	S29GL128S11TFI020	TSOP-56	25	110	128Mb	x8/x16/x32	Uniform	2.7-3.6	3.54	3.36	3.25
797-29GL256S90TFI010	S29GL256S90TFI010	TSOP-56	15	90	256Mb	x8/x16/x32	Uniform	2.7-3.6	5.67	5.37	5.20
797-29GL256S90TFI020	S29GL256S90TFI020	TSOP-56	15	90	256Mb	x8/x16/x32	Uniform	2.7-3.6	5.67	5.37	5.20
797-29GL256S10TFI010	S29GL256S10TFI010	TSOP-56	25	100	256Mb	x8/x16/x32	Uniform	2.7-3.6	5.43	5.15	4.98
797-29GL256S10TFI020	S29GL256S10TFI020	TSOP-56	25	100	256Mb	x8/x16/x32	Uniform	2.7-3.6	5.43	5.15	4.98
797-29GL256S11TFI010	S29GL256S11TFI010	TSOP-56	25	110	256Mb	x8/x16/x32	Uniform	2.7-3.6	5.67	5.37	5.20
797-29GL256S11TFI020	S29GL256S11TFI020	TSOP-56	25	110	256Mb	x8/x16/x32	Uniform	2.7-3.6	5.67	5.37	5.20
797-S29GL512S10TFI010	S29GL512S10TFI010	TSOP-56	15	100	512Mb	x8/x16/x32	Uniform	2.7-3.6	10.30	9.77	9.45
797-S29GL512S10TFI020	S29GL512S10TFI020	TSOP-56	15	100	512Mb	x8/x16/x32	Uniform	2.7-3.6	10.30	9.77	9.45
797-S29GL01GS10TFI010	S29GL01GS10TFI010	TSOP-56	15	100	1GB	x8/x16/x32	Uniform	2.7-3.6	12.60	11.94	11.55
797-S29GL01GS10TFI020	S29GL01GS10TFI020	TSOP-56	15	100	1GB	x8/x16/x32	Uniform	2.7-3.6	12.60	11.94	11.55

## FLOATING GATE NOR FLASH MEMORY PRODUCTS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Spansion Part No.	Package Type	Speed (ns)	Density	Bus Width	Sector Type	Boot Device	Price Each		
								1	25	100
797-S29JL064J70TFI000	S29JL064J70TFI000	TSOP-48	70	64Mb	x8/x16	Boot	Top/Bottom, 4 banks 8/24/24/8 Mb	4.78	4.53	4.38

## PAGE-MODE INTERFACE FLASH MEMORY

The S29GL-N family of devices are 3.0-Volt single-power Flash memory manufactured using 110nm MirrorBit technology with Page-Mode interface. The S29GL032N is a 32-Mb device organized as 2,097,152 words or 4,194,304 bytes. Depending on the model number, the devices have an 8-bit wide data bus only, 16-bit wide data bus only, or a 16-bit wide data bus that can also function as an 8-bit wide data bus by using the BYTE# input. The devices can be programmed either in the host system or in standard EPROM programmers.

The S29AL032D is a 32-megabit, 3.0 volt-only flash memory device, organized as 2,097,152 words of 16 bits each or 4,194,304 bytes of 8 bits each. Word mode data appears on DQ0-DQ15; byte mode data appears on DQ0-DQ7. The device is designed to be programmed in-system with the standard 3.0 volt VCC supply, and can also be programmed in standard EPROM programmers.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Spansion Part No.	Package Type	Page Mode Access Times (ns)	Speed (ns)	Density	Bus Width	Sector Type	Supply Voltage (V)	Price Each		
									1	25	100
<b>S29GL-N Series</b>											
797-S29GL032N90TFI010	S29GL032N90TFI010	TSOP-56	25	90	32Mb	x8/x16	Uniform/Boot	2.7-3.6	1.60	1.51	1.46
797-S29GL064N90TFI040	S29GL064N90TFI040	TSOP-48	25	90	64Mb	x8/x16	Uniform/Boot	2.7-3.6	1.33	1.29	1.26
797-S29GL064N90TFI010	S29GL064N90TFI010	TSOP-56	25	90	64Mb	x8/x16	Uniform/Boot	2.7-3.6	2.65	2.51	2.43
797-S29GL064N90BFI040	S29GL064N90BFI040	TSOP-56	90	110	64Mb	x8/x16	Uniform/Boot	2.7-3.6	1.43	1.39	1.35
<b>S29AL-D Series</b>											
797-S29AL032D90TAI000	S29AL032D90TAI000	TSOP-40	70	90	32Mb	-	Uniform/Boot	2.7-3.6	2.72	2.58	2.50
<b>S29AL-J Series</b>											
797-29AL008J70TFI010	S29AL008J70TFI010	TSOP-48	55	70	8Mb	-	Boot	2.7-3.6	.87	.827	.80
797-29AL008J70TFI020	S29AL008J70TFI020	TSOP-48	55	70	8Mb	-	Boot	2.7-3.6	.87	.827	.80
797-S29AL008J70BFI020	S29AL008J70BFI020	BGA-48	55	70	8Mb	-	Boot	2.7-3.6	.94	.896	.866
797-S29AL016J70BFI010	S29AL016J70BFI010	BGA-48	55	70	16Mb	-	Boot	2.7-3.6	1.03	.982	.95
797-S29AL016J70BFI020	S29AL016J70BFI020	BGA-48	55	70	16Mb	-	Boot	2.7-3.6	1.03	.982	.95
797-S29AL016J70TFI020	S29AL016J70TFI020	TSOP-48	55	70	16Mb	-	Boot	2.7-3.6	.90	.862	.833
797-S29AL008J70BFI010	S29AL008J70BFI010	BGA-48	70	70	8Mb	-	Boot	2.7-3.6	.94	.896	.866
<b>S29GL-S Series</b>											
797-S29GL512S10DHI020	S29GL512S10DHI020	SMD	-	100	512	16bit	Uniform	3	10.56	10.02	9.68
797-S29GL512S11TFI020	S29GL512S11TFI020	SMD	-	110	512	16bit	Uniform	3	10.05	9.53	9.22

## SERIAL PERIPHERAL INTERFACE (SPI) PRODUCTS

The new 3.0 volt Spansion® S25FL Flash memory family with Serial Interface is designed to reduce costs and dramatically simplify system design of consumer electronics and PC peripherals such as hard disk drives, optical drives, printers, cordless phones, DSL/cable modems, and DVD players and recorders.

\* Industrial Temperature Range: -40°C to +85°C

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MOUSER STOCK NO.	Spansion Part No.	Package Type	Clock Frequency	Density	Bus Width	Sector Type	Temperature Range *	Technology	Price Each		
									1	25	100
797-25FL128SDPMFIG10	S25FL128SDPMFIG10	SO-16	66	128Mb	x1, x2, x4	Uniform	Industrial	65nm MirrorBit Eclipse	3.07	2.91	2.81
797-25FL256SAGMFIG01	S25FL256SAGMFIG01	SO-16	66	256Mb	x1, x2, x4	Uniform	Industrial	65nm MirrorBit Eclipse	4.72	4.48	4.33
797-25FL256SDPMFIG11	S25FL256SDPMFIG11	SO-16	66	256Mb	x1, x2, x4	Uniform	Industrial	65nm MirrorBit Eclipse	4.96	4.70	4.55
797-25FL512SAGMFIG01	S25FL512SAGMFIG01	SO-16	66	512Mb	x1, x2, x4	Uniform	Industrial	65nm MirrorBit Eclipse	9.67	9.17	8.86
797-25FL512SDPMFIG11	S25FL512SDPMFIG11	SO-16	66	512Mb	x1, x2, x4	Uniform	Industrial	65nm MirrorBit Eclipse	9.92	9.41	9.10
797-25FL256SAGMFIG01	S25FL256SAGMFIG01	WS0N-8	133MHz	16MB	x1/x2/x4	Uniform	Industrial	65nm MirrorBit Eclipse	2.84	2.69	2.60
797-25FL256SAGMFIG01	S25FL256SAGMFIG01	SO-16	133MHz	32MB	x1/x2/x4	Uniform	Industrial	65nm MirrorBit Eclipse	4.73	4.48	4.33