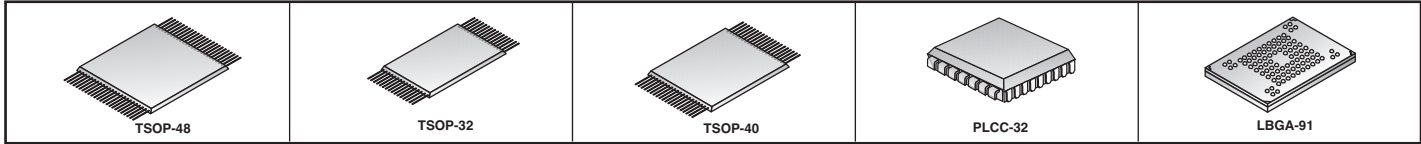


SST Parallel Flash Memory

RoHS Compliant This product is RoHS compliant.



38 SERIES ADVANCED MPF+ (MULTI-PURPOSE FLASH PLUS) PARALLEL FLASH

◆ Surface Mount Device

The 38 Series Advanced MPF+ (Multi-Purpose Flash Plus) is a family of high-performance, parallel flash memories that feature data protection capabilities as well as fast program, erase and read times. These high speed operations enable quick boot times and field updates, resulting in better end-user experiences. These capabilities also provide higher throughput in manufacturing lines that use in-system programming of the flash. The data protection features of the Advanced MPF+ family prevent unauthorized data changes, ensuring that content stored on the flash memory is secure. These are ideal for applications that need high performance or require integrity of data and services. Available in standard packages with compatible pinouts, this family of devices also offers the benefits of SuperFlash® technology; high performance, low power and reliability.

Features:

- Page Read
 - 25ns/word (max) page read access time
 - 4-Word page read buffer
- Write-Buffer Programming
 - 2.5µs/word (max) programming time (full buffer)
 - 16-Word write buffer
- Protection/Security
 - 128-bit unique ID
 - 256-Word user programmable SEC ID area
 - Individual block protection
 - Irreversible block lock
 - Boot-block options
- SuperFlash® Technology
 - Endurance, 100,000 cycles (minimum)
 - Greater than 100 years data retention
 - Fast Sector-Erase and Block-Erase time: 25 ms (maximum)
 - Low Power



RoHS Compliant

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	SST Part No.	Package	Density	Organization	Access Time (ns)	Sector-Erase Time (ms) (Typ.)	Supply Voltage (V)	Operating Temperature (°C)	Price Each		
									1	50	100
◆ 804-38VF64019CEKE	SST38VF6401-90-5C-EKE	TSOP-48	64M	4M x 16	90	18.0	2.7 to 3.6	0 to 70	5.08	4.59	4.23
◆ 804-38VF64029CEKE	SST38VF6402-90-5C-EKE	TSOP-48	64M	4M x 16	90	18.0	2.7 to 3.6	0 to 70	5.08	4.59	4.23
◆ 804-38VF64039CEKE	SST38VF6403-90-5C-EKE	TSOP-48	64M	4M x 16	90	18.0	2.7 to 3.6	0 to 70	5.08	4.59	4.23

36 SERIES CSF (CONCURRENT SUPER FLASH) PARALLEL FLASH

◆ Surface Mount Device

The 36 Series CSF (Concurrent Super Flash) is a dual-bank flash memory device designed for wireless communication and consumer applications. The dual-bank architecture supports the Concurrent Read-Write operation where the user may read from one bank while programming or erasing in the other bank.

Features:

- Dual-bank architecture for Concurrent Read-While-Write operations
- Operating voltage: 2.7-3.6V for Read and Write operations
- Hardware top or bottom sector protection
- Flexible Erase capability
- Factory and User programmable security ID
- Erase-Suspend/Erase Resume
- User selectable x8/x16 Data Bus through a BYTE# pin
- Hardware Write protection through WP# pin



RoHS Compliant

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	SST Part No.	Package	Density	Organization	Access Time (ns)	Program Time (µS) (Typ.)	Supply Voltage (V)	Operating Temperature (°C)	Price Each		
									1	50	100
◆ 804-36VF1601E7CEKE	SST36VF1601E-70-4C-EKE	TSOP-48	16M	1Mx16 or 2Mx8	70	7.0	2.7 to 3.6	0 to 70	3.00	2.71	2.50
◆ 804-36VF1601G7IEKE	SST36VF1601G-70-4I-EKE	TSOP-48	16M	1Mx16 or 2Mx8	70	7.0	2.7 to 3.6	-40 to +85	3.23	2.93	2.70
◆ 804-36VF32037EEKE	SST36VF3203-70-4E-EKE	TSOP-48	32M	2Mx16 or 4Mx8	70	7.0	2.7 to 3.6	-20 to +85	4.51	4.05	3.76
◆ 804-36VF32047EEKE	SST36VF3204-70-4E-EKE	TSOP-48	32M	2Mx16 or 4Mx8	70	7.0	2.7 to 3.6	-20 to +85	4.51	4.08	3.76

49 SERIES LPC (LOW PIN COUNT) FIRMWARE FLASH/FIRMWARE HUB

◆ Surface Mount Device

The 49 Series LPC (Low Pin Count) Firmware Flash/Firmware Hub is a family of flash memories designed for system code and data storage. It complies with the Intel LPC Interface specification supporting multi-byte Firmware Memory and single-byte LPC Memory cycle types. The low pin count interface allows ASIC host controllers to have more free pins resulting in lower overall system costs. These products are ideally suited for embedded systems and processor applications. Available in an array of package and density combinations, this family of devices also offers all the benefits of SuperFlash® technology; high performance, low power and reliability.

Features:

- Intel Support
 - Compliant with Intel low Pin Count (LPC) Interface specification 1.1
 - Compatible with Intel 82802 Firmware Hub (FWH) component
- High Bandwidth
 - Up to 33 MHz operating frequency
 - Parallel Programming (PP) for fast production programming
 - Unique features for 16Mbit devices
 - 128-byte burst programming
 - Up to 15.6MB/s data transfer rate
 - Auto Address Increment (AAI)
- Protection Security
 - 256-bit secure ID space
 - Boot block operations
 - Hardware write protection
- SuperFlash® Technology
 - Endurance, 100,000 cycles (minimum)
 - Greater than 100 years data retention
 - Fast Sector-Erase and Block-Erase time: 25 ms (maximum)
 - Low Power



RoHS Compliant

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	SST Part No.	Package	Density	Organization	Frequency (MHz)	Program Time (µS) (Typ.)	Supply Voltage (V)	Operating Temperature (°C)	Price Each		
									1	50	100
◆ 804-49LF080A3CNHE	SST49LF080A-33-4C-NHE	PLCC-32	8M	1M x 8	33	14.0	3.0 to 3.6	0 to 85	3.21	2.90	2.67
◆ 804-49LF080A3CWHE	SST49LF080A-33-4C-WHE	TSOP-32	8M	1M x 8	33	14.0	3.0 to 3.6	0 to 85	3.27	2.96	2.73
◆ 804-49LF016C3CNHE	SST49LF016C-33-4C-NHE	PLCC-32	16M	2M x 8	33	7.0	3.0 to 3.6	0 to 85	3.73	3.38	3.11
◆ 804-49LF016C3CWHE	SST49LF016C-33-4C-WHE	TSOP-32	16M	2M x 8	33	7.0	3.0 to 3.6	0 to 85	3.80	3.43	3.16
◆ 804-49LF016C3CEIE	SST49LF016C-33-4C-EIE	TSOP-40	16M	2M x 8	33	7.0	3.0 to 3.6	0 to 85	3.94	3.57	3.29
◆ 804-49LF160C3RNHE	SST49LF160C-33-4C-NHE	PLCC-32	16M	2M x 8	33	7.0	3.0 to 3.6	0 to 85	3.73	3.38	3.11

85 SERIES NANDRIVE™ SERIES EMBEDDED SOLID STATE DRIVES

The NANDrive™ family consists of high-performance, fully-integrated embedded solid-state drives. These products integrate an ATA controller and one or more NAND flash die in a multi-chip package. NANDrive products are well suited for solid-state mass storage in embedded and mobile applications because they offer new and expanded functionality while enabling cost-effective designs. This product family also includes additional security features to protect confidential information stored in the flash memory.

NANDrive products provide complete IDE hard disk drive functionality and compatibility in a small BGA package for easy, space-saving and cost-effective mounting to a system motherboard. These products are a perfect solution for applications requiring smaller and more reliable data storage. Their built-in microcontroller and flash file management firmware replaces the need for host-side Flash File System (FFS) and Memory Technology Driver (MTD) software.



Features:

- Dual-bank architecture for Concurrent Read-While-Write operations
- Industry's smallest ATA Solid-state Drive
- Industry Standard ATA/IDE Bus Interface
- Standard Memory Bus Interface
- Host Interface: 8- or 16-bit access
- Supports up to PIO Mode-6
- Multi-tasking Technology Increases Performance
- Pre-programmed Firmware in Embedded SuperFlash®
- Robust Power Down Protection
- Expanded Data Protection
- WP_PD# pin configurable by firmware for prevention of data overwrites
- Added data security through userselectable protection zones
- Smart Commands
- Built-in ECC

Applications

- Set-top box
- Blu-Ray player/recorder
- Car infotainment system
- Thin client
- MID/Netbook
- Printer
- POS
- VOIP system
- Base station
- Router/Gateway
- Server
- Industrial PC
- Medical equipment
- Automation/Control
- Test/Measurement
- Security monitoring device



RoHS Compliant

◆ Surface Mount Device

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	SST Part No.	Package	Density	Organization	Access Time (ns)	Program Time (µS) (Typ.)	Supply Voltage (V)	Operating Temperature (°C)	Price Each		
									1	50	100
◆ 804-85LD05126RILBTE	SST85LD0512-60-RI-LBTE	LBGA-91	512M	993	16	63	3.3	-40 to +85	65.31	59.09	54.42
◆ 804-85LD1001K6PCLBTE	SST85LD1001K-60-PC-LBTE	LBGA-91	1G	1986	16	63	3.3	0 to 70	39.27	35.53	32.72
◆ 804-85LD1002U6RILBTE	SST85LD1002U-60-RI-LBTE	LBGA-91	2G	3969	16	63	3.3	-40 to +85	202.65	183.35	168.87