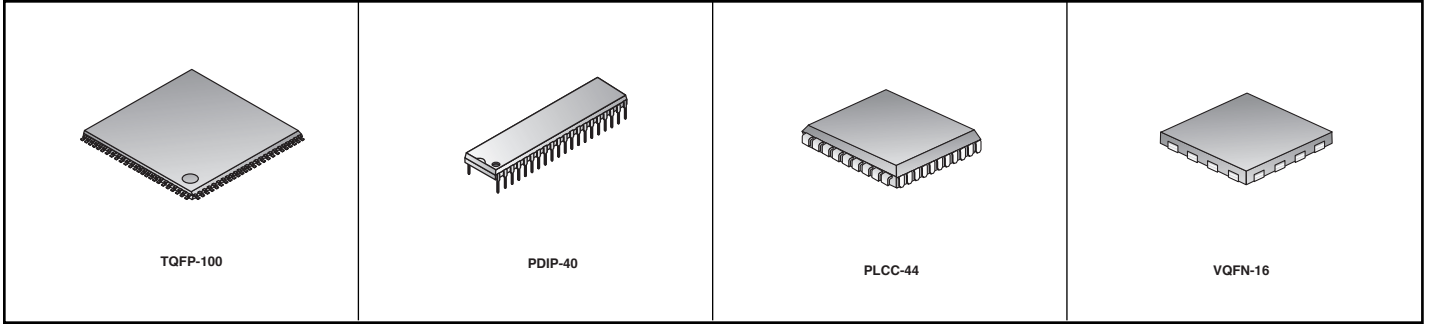


SST Microcontrollers and Power Amplifiers



RoHS Compliant This page of product is compliant.



MCU / MPU

SST

SST ATA FLASH DISK CONTROLLER

SST's ATA Flash Disk Controller is well suited for solid-state mass storage applications in high-performance, flash media-based data storage systems. They are ideal for smaller, lighter designs and low power consumption in applications such as portable computers, digital cameras, music players, PDAs, hand-held terminals and set-top boxes.



RoHS Compliant

Features:

- Host Interface supports ATA/ATAPI-5 and CFA 2.0 Commands
- Interface and support standard NAND flash media up to 16 Gbit
- Supports 512 Byte and 2K Byte page size Media Flash
- Flash Media Interface: 8-bit and 16-bit access
- Supports up to PIO Mode-4 and Multiword DMA Mode-2
- Low power, 5V/3.3V interface
- Low standby current
- Pre-programmed embedded firmware
- Internal or external system clock option
- 20-byte unique ID for expanded security
- Write-Protect or Power-Down pin for preventing data overwrites
- Advanced security features

◆ Surface Mount Device

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	SST Part No.	Case Type	Operating Voltage (V)	Clock Speed (MHz)	Supported Capacity	Sustained White Speed	Sustained Read Speed	Security Features	Price Each		
									1	50	100
◆ 804-55LD019B4CTQWE	SST55LD019B-45-C-TQWE	TQFP-100	3.3	45	16MB to 8GB	Up to 10MB/sec	Up to 10MB/sec	Yes	13.95	12.28	11.16

SST COMPACTFLASH CARD CONTROLLER

The SST55LC100 CompactFlash Card Controller is the heart of a high-performance, flash media-based Compact-Flash card solution. It supports the Single Level Cell (SLC) media only. This technology suits solid state mass storage applications offering new, expanded functionality while enabling smaller, lighter designs with lower power consumption. The CompactFlash interface is widely used in products such as portable and desktop computers, digital cameras, music players, handheld data collection scanners, PDAs, handy terminals, personal communicators, audio recorders, monitoring devices, and set-top boxes.



RoHS Compliant

Features:

- CompactFlash Association Specification Revision 2.0 standard
- Low current operation
- 20-byte unique ID for enhanced security
- Power management unit
- Interface for standard NAND Flash media
- Flash Media Interface: 8-bit or 16-bit access
- Supports up to 8 flash media devices directly
- Supports Single-Level Cell (SLC)
- Integrated Power-On Reset Circuit
- Pre-programmed Embedded Firmware
- Automatic recognition and initialization of Flash Media devices

◆ Surface Mount Device

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	SST Part No.	Case Type	Operating Voltage (V)	Clock Speed (MHz)	Supported Capacity	Sustained White Speed	Sustained Read Speed	Security Features	Price Each		
									1	50	100
◆ 804-55LC1004CTQWE	SST55LC100-45-C-TQWE	TQFP-100	3.3	45	16MB to 8GB	Up to 10MB/sec	Up to 10MB/sec	Yes	8.55	7.52	6.84

SST FLASHFLEX51 8-BIT MICROCONTROLLERS

The FlashFlex51 family of 8-bit microcontroller products include SST's patented and proprietary SuperFlash® CMOS semiconductor process technology. The products use the 8051 instruction set and are pin-for-pin compatible with standard 8051 microcontroller devices. They are designed to be programmed in-system and in-application on the PCB for maximum flexibility.

Features:

- 8-Bit 8051-compatible microcontrollers with embedded SuperFlash® memory
- Individual block/page security lock
- Dual-block SuperFlash® memory
- Small sector architecture: 128-byte sector size
- Low power modes:
 - Idle mode
 - Power-down mode with external wake-up
- Clock doubling option
- Three high-current drive pins for LEDs
- Serial interfaces: 1 Channel Enhanced UART and SPI)
- Programmable Counter Array (PCA) (5 channel)
- Watchdog Timer (WDT)
- Brown-out detection (BOD)
- In-System Programming (ISP) & In-Application Programming (IAP)
- Two 16-bit (2-byte) data pointer (DPTR)
- Ten interrupt sources with four levels of priority
- Three 16-bit timer/counters



RoHS Compliant

◆ Surface Mount Device

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	SST Part No.	Case Type	Operating Voltage (V)	Clock Speed (MHz)	Memory Size			WDT	BOD	ISP & IAP	DPTR	Security		I/O * Pins	Price Each		
					Main Flash	2nd Flash	RAM					Hard Lock	Soft Lock		1	50	100
◆ 804-89E52RD4CPIE	SST89E52RD-40-C-PIE	PDIP-40	4.5 to 5.5	40	8K	8K	1K	Yes	Yes	Yes	2	Yes	Yes	32+4	4.45	3.92	3.56
◆ 804-89E52RD24CNJE	SST89E52RD2-40-C-NJE	PLCC-44	4.5 to 5.5	40	8K	8K	1K	Yes	Yes	Yes	2	Yes	Yes	32+4	3.88	3.41	3.10
◆ 804-89E54RD4CPIE	SST89E54RD-40-C-PIE	PDIP-40	4.5 to 5.5	40	16K	8K	1K	Yes	Yes	Yes	2	Yes	Yes	32+4	4.93	4.33	3.94
◆ 804-89E54RD24CNJE	SST89E54RD2-40-C-NJE	PLCC-44	4.5 to 5.5	40	16K	8K	1K	Yes	Yes	Yes	2	Yes	Yes	32+4	4.35	3.83	3.48
◆ 804-89E54RD3CPIE	SST89E54RD-33-C-PIE	PDIP-40	4.5 to 5.5	33	16K	8K	1K	Yes	Yes	Yes	2	Yes	Yes	32+4	4.93	4.33	3.94
◆ 804-89V54RD23CNJE	SST89V54RD2-33-C-NJE	PLCC-44	2.7 to 3.6	33	16K	8K	1K	Yes	Yes	Yes	2	Yes	Yes	32+4	4.35	3.83	3.48
◆ 804-89E58RD4CPIE	SST89E58RD-40-C-PIE	PDIP-40	4.5 to 5.5	40	32K	8K	1K	Yes	Yes	Yes	2	Yes	Yes	32+4	5.25	4.62	4.20
◆ 804-89E58RD24CNJE	SST89E58RD2-40-C-NJE	PLCC-44	4.5 to 5.5	40	32K	8K	1K	Yes	Yes	Yes	2	Yes	Yes	32+4	4.68	4.11	3.74
◆ 804-89V58RD3CPIE	SST89V58RD-33-C-PIE	PDIP-40	2.7 to 3.6	33	32K	8K	1K	Yes	Yes	Yes	2	Yes	Yes	32+4	5.25	4.62	4.20
◆ 804-89V58RD23CNJE	SST89V58RD2-33-C-NJE	PLCC-44	2.7 to 3.6	33	32K	8K	1K	Yes	Yes	Yes	2	Yes	Yes	32+4	4.68	4.11	3.74
◆ 804-89E516RD4CPIE	SST89E516RD-40-C-PIE	PDIP-40	4.5 to 5.5	40	64K	8K	1K	Yes	Yes	Yes	2	Yes	Yes	32+4	8.15	7.17	6.52
◆ 804-89E516RD24CNJE	SST89E516RD2-40-C-NJE	PLCC-44	4.5 to 5.5	40	64K	8K	1K	Yes	Yes	Yes	2	Yes	Yes	32	7.83	6.89	6.26

* Besides four 8-bit I/O ports, an additional 4-bit port is provided in PLCC-44 packages

SST HIGH-POWER, HIGH-GAIN AMPLIFIERS

SST's power amplifiers are based on the highly reliable advanced InGaP/GaAs HBT technology. These power amplifiers can easily be configured for high-power, high-efficiency applications with superb power-added efficiency while operating over the 2.4-2.5 GHz frequency range. These are ideal for the final stage power amplification in battery-powered 802.11g/b WLAN transmitter applications.

Features:

- High linear output power
- High power-added efficiency
- Low operating current
- Built-in ultra-low IREF power-up/down control
- Low idle current
- High-speed power-up/down
- High temperature stability
- Low shut-down current
- On-chip power detection
- 25dB dynamic range on-chip power detection
- Simple input-output matching

Applications:

- WLAN (IEEE 802.11g/b)
- Home RF
- Cordless phones
- 2.4 GHz ISM wireless equipment



RoHS Compliant

◆ Surface Mount Device

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	SST Part No.	Case Type	Gain (dB)	Linear Output Pwr (Max.) (dBm)	Temperature Range (°C)	Supply Current (Typ.Max.) (mA)	Supply Voltage (V)	Price Each		
								1	50	100
◆ 804-SST12LP14-QVCE	SST12LP14-QVCE	VQFN-16	30	20	- 40 to + 85	----/340	-0.3 to +4.6	1.23	1.08	.98
◆ 804-12LP15A-QVCE	SST12LP15A-QVCE	VQFN-16	33	23	- 40 to + 85	350/----	-0.3 to +4.6	1.50	1.32	1.20

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