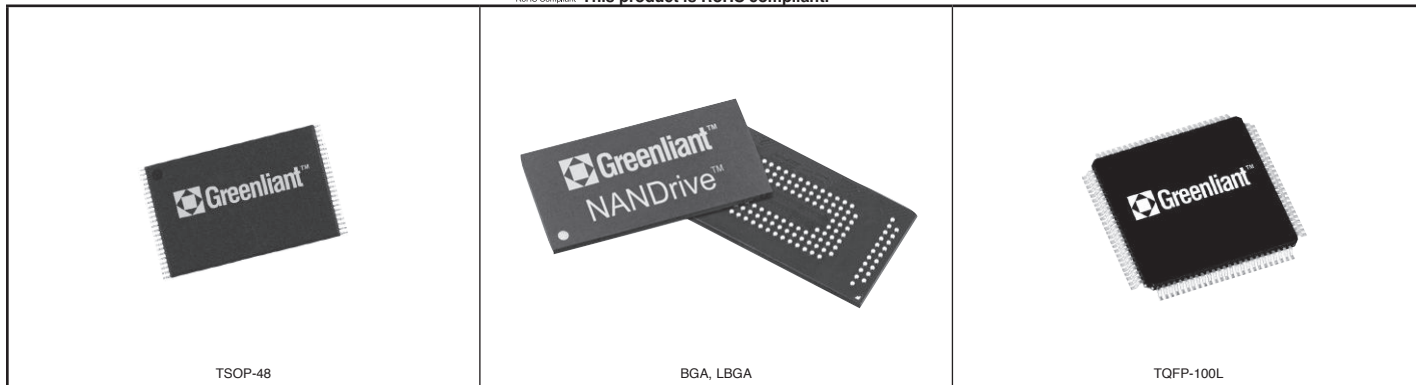


# GREENLIANT Solid State Drives and Controllers



RoHS Compliant This product is RoHS compliant.



Memory

Greenliant

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## 36 SERIES CSF (CONCURRENT SUPER FLASH) PARALLEL FLASH

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

### ◆ Surface Mount

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Greenliant Part No.	Package	Density	Organization	Access Time (ns)	Chip Rewrite Time (Sec) (Typ.)	Supply Voltage (V)	Operating Temperature (°C)	Price Each		
									1	50	100
◆ 804-GLS36VF1601G-EKE	GLS36VF1601G-70-4I-EKE	TSOP-48	16M	1M x 16 or 2M x 8	70	7.0	2.7 to 3.6	-40 to +85	3.23	2.93	2.70
◆ 804-GLS36VF3204E-EKE	GLS36VF3203-70-4E-EKE	TSOP-48	32M	2M x 16 or 4M x 8	70	7.0	2.7 to 3.6	-20 to +85	4.51	4.08	3.76
◆ 804-GLS36VF32044EKE	GLS36VF3204-70-4E-EKE	TSOP-48	32M	2M x 16 or 4M x 8	70	7.0	2.7 to 3.6	-20 to +85	4.51	4.08	3.76

## 85 SERIES SATA FLASH NANDRIVE

The SATA NANDrive™ family extends Greenliant's portfolio of high-performance, fully integrated embedded solid state drives (SSDs). These managed NAND products integrate a Serial ATA controller and one or more NAND flash die in a multi-chip package. A built-in microcontroller and flash file management firmware replace the need for host-side Flash File System (FFS) and Memory Technology Driver (MTD) software. Compatible with the latest generation chipsets, SATA NANDrive products have the same footprint across all capacities for backward compatibility, simplifying system-level board design.

### Features:

- Small Form Factor SATA Solid State Drive
- Industry Standard Serial ATA Interface
- Energy Efficient
- Multi-tasking Technology Increases Performance
- Pre-programmed Firmware in Embedded SuperFlash® Memory
- Robust Power Down Data Protection
- Bad Block Management
- Built-in ECC
- Advanced Data Security
- SSD Lifespan Monitoring
- Multiple Densities with Same Pin-out
- Commercial and Industrial Temperatures



### ◆ Surface Mount

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Greenliant Part No.	Package	Operating Voltage (V)	Supported Capacity	Sustained Write Speed	Sustained Read Speed	Operating Temperature (°C)	Price Each		
								1	50	100
◆ 804-GLS85LS1002AMCFZ	GLS85LS1002A-M-C-FZJE	FBGA	1.2 and 3.3	2GB	Up to 8MB/sec	Up to 35MB/sec	0° to +70°	49.81	45.27	41.69
◆ 804-GLS85LS1002PSIFZ	GLS85LS1002P-S-I-FZJE	FBGA	1.2 and 3.3	2GB	Up to 60MB/sec	Up to 70MB/sec	-40° to +85°	122.03	122.03	111.65
◆ 804-GLS85LS1004AFZJE	GLS85LS1004A-M-C-FZJE	BGA	1.2 and 3.3	4GB	Up to 10MB/sec	Up to 35MB/sec	0° to +70°	64.73	59.91	56.47
◆ 804-GLS85LS1004PSIFZ	GLS85LS1004P-S-I-FZJE	FBGA	1.2 and 3.3	4GB	Up to 60MB/sec	Up to 70MB/sec	-40° to +85°	202.71	188.62	176.69
◆ 804-GLS85LS1008AFZJE	GLS85LS1008A-M-C-FZJE	BGA	1.2 and 3.3	8GB	Up to 18MB/sec	Up to 70MB/sec	0° to +70°	109.81	101.63	95.79
◆ 804-GLS85LS1008PSIFZ	GLS85LS1008P-S-I-FZJE	FBGA	1.2 and 3.3	8GB	Up to 60MB/sec	Up to 70MB/sec	-40° to +85°	375.47	345.52	325.54
◆ 804-GLS85LS1016AFZJE	GLS85LS1016A-M-C-FZJE	BGA	1.2 and 3.3	16GB	Up to 30MB/sec	Up to 70MB/sec	0° to +70°	202.55	187.47	176.69
◆ 804-GLS85LS1032AFZJE	GLS85LS1032A-M-C-FZJE	BGA	1.2 and 3.3	32GB	Up to 30MB/sec	Up to 70MB/sec	0° to +70°	372.45	344.71	324.90
◆ 804-GLS85LP0512PLBTE	GLS85LP0512P-S-I-LBTE	LBGA	3.3	512MB	Up to 6MB/sec	Up to 25MB/sec	-40° to +85°	48.96	45.31	42.71
◆ 804-GLS85LP1002P-FTE	GLS85LP1002P-S-I-FTE	BGA	3.3	2GB	Up to 11MB/sec	Up to 28MB/sec	-40° to +85°	118.01	109.22	102.94
◆ 804-GLS85LP1008P-FTE	GLS85LP1008P-S-I-FTE	BGA	3.3	8GB	Up to 39MB/sec	Up to 50MB/sec	-40° to +85°	371.34	343.68	323.93

## COMPACTFLASH CARD CONTROLLER

The GLS55LC200 NAND Controller is the core of a high performance, flash media-based, data storage system. The controller recognizes the control, address, and data signals on the CF bus and translates them into memory accesses for standard NAND-type flash media. Using both Single Level Cell (SLC) and Multi-Level Cell (MLC) flash media, this technology supports solid state mass storage applications by offering new, expanded functionality while enabling smaller, lighter designs with lower power consumption. The NAND Controller supports standard CF protocols with up to PIO Mode-6, Multi-word DMA Mode-4, and Ultra DMA Mode-4 interface. The CF 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.

### Features:

- CompactFlash Association Specification Revision 3.0 standard
- Interface for standard NAND Flash media
- Low current operation
- Power management unit
- Flash Media Interface: Single or Dual 8-bit access
- Supports up to 4 flash media devices per channel
- Supports Single-Level Cell (SLC) or Multi-Level Cell (MLC) media 2K Byte and 4K Byte program page size
- 20-byte unique ID for enhanced security
- Programmable, multitasking NAND interface
- Firmware storage in Embedded SuperFlash®
- Pre-programmed Embedded Firmware
- Built-in Hardware ECC
- Built-in Internal System Clock
- Automatic recognition and initialization of Flash Media devices

### ◆ Surface Mount

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Greenliant Part No.	Package	Operating Voltage (V)	Clock Speed (MHz)	Supported Capacity	Sustained Write Speed	Sustained Read Speed	Security Features	Price Each		
									1	50	100
◆ 804-GLS55LC200C-TQWE	GLS55LC200-60-C-TQWE	TQFP-100L	3.3	60	up to 4GB	Up to 30MB/sec	Up to 30MB/sec	Yes	6.65	6.02	5.54

