Super Talent - OEM Solution Provider

Headquartered in the heart of Silicon Valley, Super Talent provides OEM Customers a competitive advantage by enabling them to outsource the design, layout, manufacturing and qualification processes. Our ultimate goal is provide innovative solutions, decrease your time to market and reduce costs.

Design
Super Talent designs are produced by a talented team of Silicon Valley engineers to satisfy most of the customers data storage needs.

Manufacturing
Super Talent uses state-ofthe art ISO 9001 certified technical equipment and leading-edge components to manufacture it's memory products.

Testing
All Super Talent products are rigorously tested for quality within our own labs and then tested and approved by top motherboard manufacturs and other industry partners to assure compatibility.

Logistics
Super Talent logisticservices are very flexible to meet various customer needs that include retail and bulk packaging, procurement, inventory management, transportation, and more.

SUPER TALENT LOCATIONS INCLUDE:

- San Jose
- Los Angeles
- Chicago
- New Jersey
- Georgia
- Miami
- Brazil
- Europe
- Shenzhen & Guang Zhou
- Wuhan
- Taiwan
- Hong Kong
- Japan
- Mexico

✪ Headquarters
◯ Sales Representative
◎ Sales, Warehouse
✧ Sales, Purchasing
☐ Factory

Chicago
San Jose
New Jersey
LA
Georgia
Miami
Mexico
Costa Rica
Europe
Wuhan
Korea
Japan
Shenzhen & Guang Zhou
Hong Kong
Taiwan
Peru
Brazil
Chile
Bolivia
Argentina

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SUPER ★ TALENT®
THE BEST MEMORY

www.supertalent.com

The Broadest Portfolio in the Industry...

Super Talent SSD

Applications :
- **Enterprise**
- **Industrial**
- **Military**
- **Embedded**
- **Legacy**

Interface :
- **PCIe**
- **SATA II & III**
- **SAS**
- **PATA (IDE)**

SATA 2.5"
SOLID STATE DRIVE
480GB
SUPER ★ TALENT
FTM8N325H

THE SSD REVIEW
EDITORS CHOICE

[Super Talent] pulled off the highest marks we had seen yet, from a solid state drive using asynchronous NAND flash memory.

- The SSD review

Read the review

ST Solid State Drives -

RAIDDrive II

SUPER ★ TALENT
128GB

SUPER ★ TALENT

Enterprise Server   Industrial / Military   Laptop / Desktop   Embedded

Your Source for Quality...
Flash & DRAM Products...

Index

FLASH PRODUCTS

MEMORY PRODUCTS

* Patent # - USA (Protected by U.S Patents)

DDR DIMM:
5,841,686 ; 5,982,653 ; 5,996,880 ; 6,542,393 ; 6,775,139 ; 6,993,209 ; 7,023,700 ; 7,215,551 ; 7,365,985

USB Flash Drives:
6,547,130 ; 6,854,984 ; 6,874,044 ; 6,993,618 ; 7,004,780 ; 7,004,794 ; 7,021,971 ; 7,044,802 ; 7,052,287 ; 7,073,010 ; 7,074,052 ; 7,082,056 ; 7,094,074 ; 7,095,617 ; 7,103,684 ; 7,104,848 ; 7,108,560 ; 7,125,287 ; 7,126,559 ; 7,182,646 ; 7,186,147 ; 7,235,423 ; 7,243,185 ; 7,249,978 ; 7,252,518 ; 7,257,714 ; 7,259,967 ; 7,269,004 ; 7,297,024 ; 7,318,117 ; 7,428,605 ; 7,347,736

Flash Cards:
6,547,130 ; 6,874,044 ; 7,009,846 ; 7,032,827 ; 7,069,369 ; 7,082,056 ; 7,103,684 ; 7,104,807 ; 7,126,873 ; 7,173,826 ; 7,174,628 ; 7,243,185 ; 7,257,714 ; 7,296,345 ; 7,299,316

Solid State Drives:
7,243,185 ; 6,547,130 ; 6,874,044 ; 7,004,780 ; 7,082,056 ; 7,073,010 ; 7,104,807 ; 7,126,873 ; 7,130,958 ; 7,243,185 ; 7,257,714 ; 7,299,316 ; 7,318,117
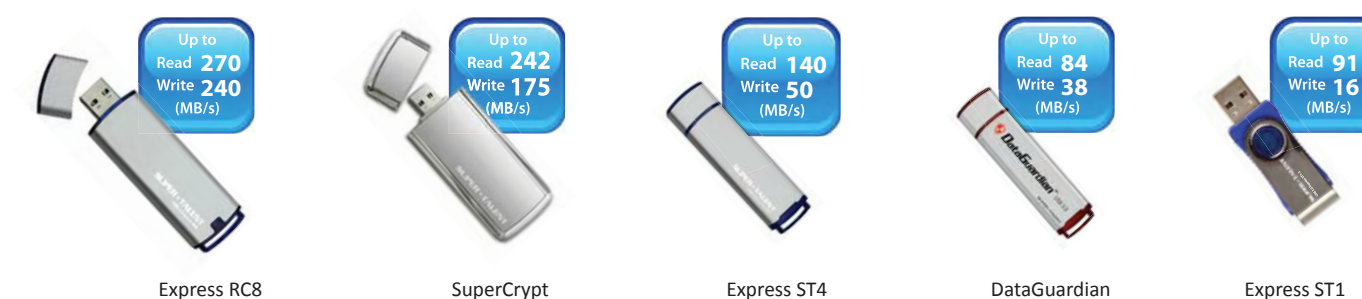
* Taiwan Patents
164,796 ; 095,968 ; 145,103 ; 178,818 ; 178,779 ; 178,845 ; 206,035 ; 216,173 ; 216,933 ; 201,112 ; 246,923 ; 205,100 ; 230,947 ; I252,981 ; I264,152 ; I264,678

*China Patents:
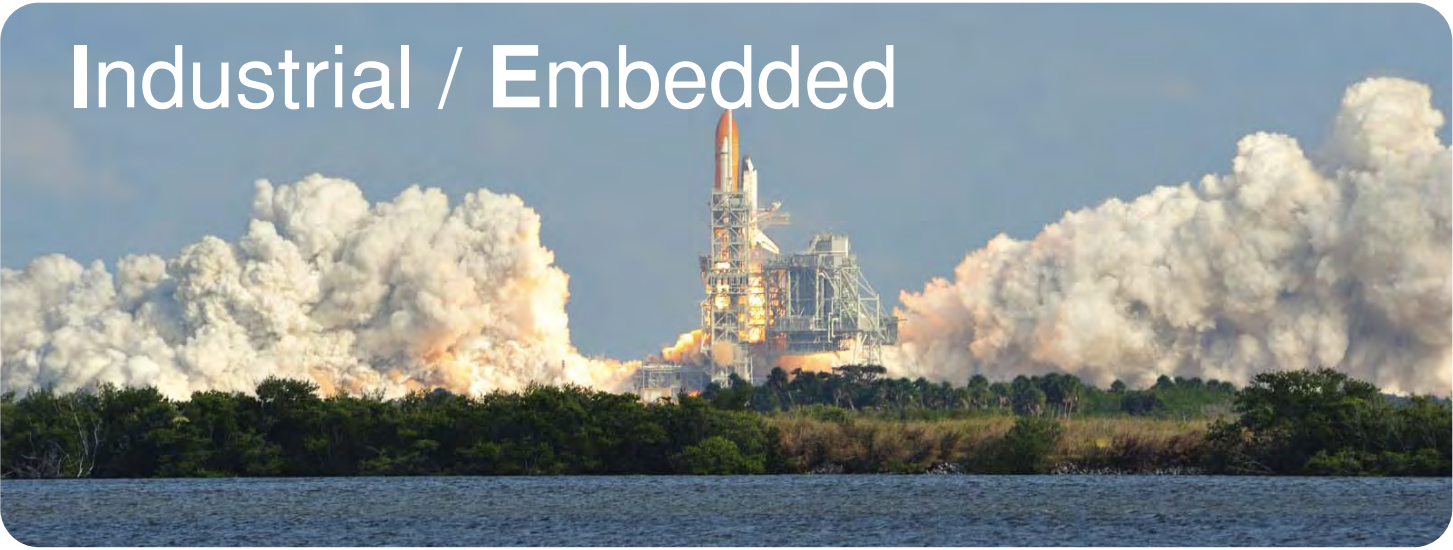107,391 ; 255,645

Solid State Drives

| RAIDDrive | TeraDrive | UltraDrive | DuraDrive | FDM |

USB 3.0 Flash Drives

| Express RC8 | SuperCrypt | Express ST4 | DataGuardian | Express ST1 |

Up to Read 270 Write 240 (MB/s)
Up to Read 242 Write 175 (MB/s)
Up to Read 140 Write 50 (MB/s)
Up to Read 84 Write 38 (MB/s)
Up to Read 91 Write 16 (MB/s)

Memory Products

| Overclocking Memory | Server Memory | Desktop Memory | Laptop Memory | Apple Memory |

Industrial / Embedded

128GB	128GB		32GB

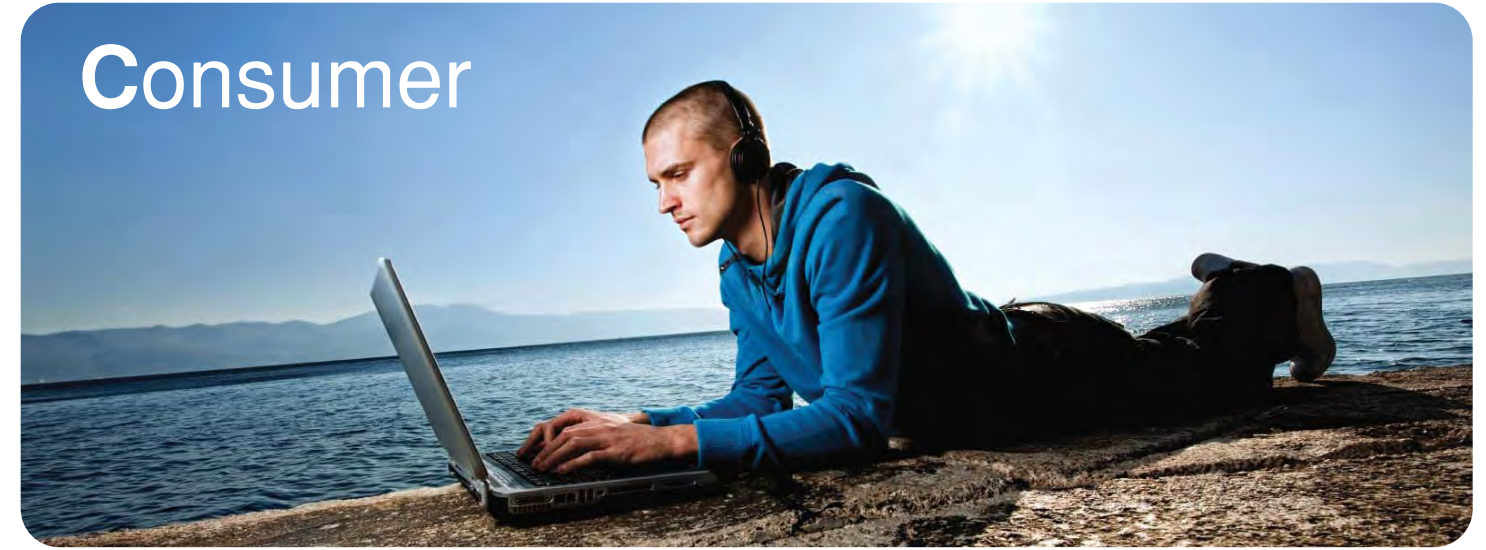Industrial Temp (-40°C to +85°C)   Secure Erase   Variety of Form Factors   CF, DOMs, FDMs, SATA, mSATA, PCIe & more

Consumer

PCIe RAID Solutions   SATA III SSD   DDR3 DIMMs   USB 3.0 Flash Drives

Enterprise

PCIe RAID Solutions   Enterprise SSDs   DDR3 RDIMMs   USB 3.0 SSDs

Legacy

PATA/ IDE (2.5"& 1.8")   SATA II SSD   DDR2 DIMMs   USB 2.0 Flash Drives

Solid **S**tate **D**rives

SSDs (solid state drives) are the latest in high performance data storage devices. Using NAND Flash memory, SSDs consume less power, perform faster, produce less noise, and weigh less than conventional hard disk drives.

Replacing HDDs with SSDs is an easy choice since they are 100% compatible. While standard spinning HDDs are the first component to fail in extreme conditions, SSDs are durable, reliable and bring unparalleled performance to your system.

Enterprise Server - Server, Workstation, Extreme Performance

	RAIDDrive	TeraDrive
Form Factor	PCIe	2.5"
Interface	PCIe x8	SATA-II, III
Density	256GB - 2TB	55GB - 480GB
Flash Type	MLC	MLC

Industrial / Military / Embedded - Military, Aerospace, Industrial, Medical, Embedded Systems

	DuraDrive	FDM	CoreStore
Form Factor	2.5", 1.8"	7-44 Pin Vertical or Horizontal, USB	PCIe and Mini PCIe
Interface	SATA-II, IDE/PATA	SATA-II, IDE/PATA	PCIe and Mini PCIe
Density	16GB - 256GB	4GB - 32GB	16GB - 64GB
Flash Type	SLC/MLC	SLC/MLC	SLC/MLC

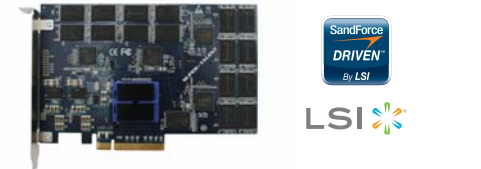## Laptop / Desktop - High Performance Storage

	UltraDrive	VSSD	Netbook SSDs
Form Factor	2.5"	2.5"	1.3", 1.8", mini PCIe
Interface	SATA-II	SATA-II	SATA-II, IDE/PATA
Density	32GB - 480GB	8GB - 64GB	8GB - 128GB
Flash Type	SLC/MLC	MLC	SLC/MLC

RAIDDrive SSDs *Enterprise Server* - Server, Workstation, Extreme Performance

Built for the Enterprise server, our RAIDDrive SSD increases application performance and reduces latency by providing unparalleled bandwidth of up to 2GB/s. Designed to fit into a low profile server, the SuperTalent RAIDDrive can simplify your IT infrastructure while reducing operating and capital costs.

RAIDDrive upStream

- PCIe x8 link host interface
- Burst Speed (max) : Read 950MB/s, Write 800MB/s**
- Capacities of up to 1TB

RAIDDrive II

- PCIe x8 (Gen2) host interface
- Burst Speed (max) : Read 2.4GB/s, Write 2.8GB/s*
- Supports RAID 0 or RAID 5
- Capacities of up to 2TB

RAIDDrive GS

- PCIe x8 link host interface
- Burst Speed (max) : Read 1.4GB/s, Write 1.2GB/s*
- Support 140K IOPS
- Capacities up to 2TB

Specification		RAIDDrive upStream	RAIDDrive II	RAIDDrive GS
Interface		PCIe x8	PCIe x8	PCIe x8
Controller		LSI 1064E	LSI ROC 2108	Intel IOP 348
Form Factor		PCIe	PCIe	PCIe
Capacities		256GB - 2TB	480GB - 2TB	256GB - 2TB
NAND Flash		MLC	MLC	MLC
Performance	Access Time	0.1ms	0.1ms	0.1ms
Burst Speed	Read/Write (MB/sec)	950/900**	2400/2800*	1400/1200*
RAID Function		0/1	0/5	0/5
RAID Cache Size		N/A	1GB	512MB
Number of Port		4ports	8ports	4ports/8ports with Expander
Battery Backup		No	No	No
MTBF		>1,500,000 hrs	>1,500,000 hrs	>1,500,000 hrs
Dimension	mm	167.5 x 107 x 17	231.5 x 94 x 20.6	255 x 107 x 25.4
Part Number		TBD	R2Sxxxx	RGSxxxx

* Based on CrystalDiskMark v.3.0 and Asus P6T Motherboard. Perfomance may vary. Usable capacity is less than specified after formatting. Windows is a registered trademark of Microsoft. ** Based on ATTO and ASUS P6T M/B.

CoreStore SSDs *Industrial / Military / Embedded* - Military, Aerospace, Industrial, Medical, Embedded Systems

Specification		PCIe FDM	CoreStore MV	CoreStore MP
Interface		PCIe FDM	PCIe Gen2 x1	PCIe Gen2 x1
Form Factor		PCIe	Mini PCIe	PCIe x 1
Capacities		8GB-64GB	16 - 128GB(MLC) 16 - 64GB(SLC)	16 - 128GB(MLC) 16 - 64GB(SLC)
DRAM Cache		N/A	DDR2 64MB	DDR2 64MB
NAND Flash		MLC/SLC	ONFI2.0 MLC/SLC	ONFI2.0 MLC/SLC
Performance	Access Time	0.2ms	0.1ms	0.1ms
	Read/Write (MB/sec)	160/80	350/80	
Dimension	mm	26.2 X 0.25	30 x 50.95	PCIe Card
Warranty		4 x 0.25		
Part Number		2 years(MLC) 3 years(SLC)	2 years(MLC) 3 years(SLC)	2 years(MLC) 3 years(SLC)
		SNxxN6AME	SRxxCxMME(MLC) SRxxDxMME(SLC)	SRxxCxMP1(MLC) SRxxDxMP1(SLC)

- Boots Windows 7 in 11 seconds
- ONFi DDR (Double Data Rate)
- Capacities of up to 128GB
- Read 350MB/s, Write 220MB/s

TeraDrive SSDs (SATA III) *Enterprise Server* - Server, Workstation, Extreme Performance

The TeraDrive™ line is our Enterprise offering. Exclusively featuring SandForce™ controllers, the TeraDrive represents the pinnacle of performance in Enterprise storage. Designed to deliver exceptional performance, the TeraDrive line also features state of the art algorithms to increase reliability and reduce performance degradation over time. Supporting up to 50,000 IOPS, the TeraDrive is ideal for database servers.

SATA III Now available...

Features

- Impressively fast Random R/W Speeds
- Up to 500 Read, 500 Write (MB/sec)
- Capacities up to 480GB

Specification		Super Nova	TeraNova	TeraDrive CT3	TeraDrive CT2
Controller		SandForce 22xx	SandForce 22xx	SandForce 22xx	SandForce 12xx
Interface		SATA-III	SATA-III	SATA-III	SATA-II
Form Factor		2.5 "	2.5 "	2.5 "	2.5 "
Capacities		128GB,256GB	60GB,120GB,240GB,480GB	60GB,120GB,240GB,480GB	55GB,115GB,240GB,480GB
NAND Flash		ONFi MLC	MLC	MLC	MLC
Internal Cache Size		N/A	N/A	N/A	N/A
Power Supply		5V ± 10%	5V ± 10%	5V ± 10%	5V ± 10%
Reliability	MTBF	>2,000,000 hrs	>1,000,000 hrs	>2,000,000 hrs	>1,000,000 hrs
Dimension	mm	69.85 x 100.20 x 7.00 mm	69.85 x 100.20 x 9.00 mm	69.85 x 100.20 x 9.00 mm	69.85 x 100.20 x 9.50 mm
Warranty		3 years	2 years	2 years	2 years
Part Number		FTMxxS325H	FTMxxN325H	FTMxxC325H	FTMxxC225H

Garbage Collection and TRIM Support

Garbage Collection is an odd term for a feature that will keep your SSD drive running at optimum performance throughout its life and Trim is its close companion. Both features run in the background, seeking out invalid blocks of data and preparing them to be written to both quickly and efficiently. While Trim requires Operating System awareness and currently only works with Windows 7, Windows Server 2008 RC2, Linux (kernel 2.6.33+), Garbage Collection does not require OS participation and will work with everything from XP, Vista, Linux, Macintosh, you name it. All of our 2.5" SSDs support both Garbage Collection and Trim to keep your drive running at its best.

TRIM is an operating system feature in which the OS will pass down commands to an SSD controller to erase deleted pages from the SSD. When the TRIM command is enabled, it will execute automatically in the background to always keep the SSD performing like new. TRIM is generally the best method for maintaining SSD performance because it is built into the OS and happens automatically. TRIM is supported by Windows® 7 and Windows Server 2008 R2. It will be integrated into Linux in the near future. Other operating systems do not support TRIM.

UltraDrive/ MasterDrive SSDs *Laptop / Desktop* - High Performance Storage

UltraDrive™ series SSDs are perfect SSD for the workstation. Designed to strike a balance between performance and price, the UltraDrive products represent our best value. Featuring advanced error correction, wear leveling, bad block management technologies and Trim, the UltraDrive is designed and tested to offer performance, endurance and reliability.

Premier Storage Solution...

UltraDrive Features
- Impressively fast Random R/W Speeds
- Up to 250 Read, 180 Write (MB/sec)
- Capacities up to 480GB

MasterDrive Features
- SATA-II interface and 128MB internal cache
- Operates at industrial temperatures (-40°C - +85°C)
- Up to 250MB/sec Read speeds
- Up to 130MB/sec Write speeds

Specification		UltraDrive MX2	MasterDrive KX3
Interface		SATA-II, mini-USB connector	SATA-II
Form Factor		2.5"	1.8"uSATA
Capacities		60GB - 480GB	32GB - 256GB
NAND Flash		MLC/SLC	MLC
Performance	Access Time	0.1ms	0.1ms
Internal Cache Size		64MB	128MB
Power Supply		5V ± 10%	3.3V ± 10%
Environment	Vibration	16G	16G
	Shock	1500G	1500G
	Op Temperature	0-70 °C	0-70 °C
Reliability	MTBF	>1,000,000 hrs	>1,000,000 hrs
Noise	Active	0dB	0dB
Dimension	mm	69.85 x 100.20 x 9.50 mm	78.5 X 54.0 X 5.0 mm
Warranty		3 years (SLC) 2 years (MLC)	2 years
Part Number		FTDxxM225H (SLC) FTMxxM225H (MLC)	FUMxxG818H

Specifications subject to change without notice. Usable capacity is less than specified after formatting. Actual performance varies. *Preliminary specs. * US Patents #7,243,185; 7,301,776; 7,318,117.

VSSD *Laptop / Desktop* - High Performance Storage

Super Talent's VSSD brings performance and solid-state technology together at one incredible price. By upgrading to the VSSD from traditional hard disks, shorter OS booting up time, faster application loading, and less system power consumption can be achieved. The VSSD also takes full advantage of the 3Gbps SATA-II bandwidth showing off sequential read speeds of up to 160MB/sec and sequential write speeds of up to 80MB/sec.

Specification		VSSD-G5
Interface		SATA-II
Form Factor		2.5 "
Capacities		8GB - 64GB
NAND Flash		MLC
Performance	Access Time	0.1ms
	8GB R/W (MB/s)	35/10
	16GB R/W (MB/s)	70/25
	32GB R/W (MB/s)	115/45
	64GB R/W (MB/s)	160/80
Power Supply		5V ± 5%
Enviroment	Vibration	16G
	Shock	1500G
	OP temperature	0°C ~ 70°C
Reliability	MTBF	>1,000,000 hrs
Dimension	mm	69.9 x 100.2 x 9.5
Warranty		2 years
Part Number		FTMxxG525V

DuraDrive SSDs

Industrial / Military / Embedded - Military, Aerospace, Industrial, Medical, Embedded Systems

Super Talent's DuraDrive SSDs represent the state-of-the-art solid-state storage solutions for Industrial, Embedded, Military and Mission Critical applications. Available in a variety of configurations. Features include: i-Temp (-40°C to +85C) and Commercial Temp, SLC and MLC, Secure Erase, SATA, PATA and ZIF. When reliability becomes mission critical, think DuraDrive.

Mission Critical Storage

DuraDrive SSD...

Specification		DuraDrive AT2	DuraDrive ET2	DuraDrive AT3	DuraDrive ZT2
Interface		SATA-II	IDE/PATA	SATA-II	IDE/ZIF
Form Factor		2.5"	2.5"	2.5"	1.8"
Capacities		32GB - 256GB (MLC) 16GB - 128GB (SLC)	32GB - 256GB (MLC) 16GB - 128GB (SLC)	32GB - 256GB (MLC)	32GB - 256GB (MLC) 16GB - 128GB (SLC)
NAND Flash		MLC/SLC	MLC/SLC	MLC	MLC/SLC
Performance	Access Time	0.1ms	0.1ms	0.1ms	0.1ms
	Read/Write (MB/sec)	Up to 125/110	Up to 125/110	Up to 250/170	Up to 125/110
Internal Cache Size		64MB	64MB	128MB	64MB
Power Supply		5V ± 10%	5V ± 10%	5V ± 10%	3.3V ± 10%
Environment	Vibration	16G	16G	16G	16G
	Shock	1500G	1500G	1500G	1500G
	Op Temperature	0°C~70°C (I-temp: -40°C~85 °C)	0°C~70°C (I-temp: -40°C~85 °C)	0°C~70°C (I-temp: -40°C~85 °C)	0°C~70°C (I-temp: -40°C~85 °C)
Reliability	MTBF	>1,000,000 hrs	>1,000,000 hrs	>1,000,000 hrs	>1,000,000 hrs
Noise	Active	0dB	0dB	0dB	0dB
Dimension	mm	69.9 x 100.2 x 9.5 mm	69.9 x 100.2 x 9.5 mm	69.85 x 100.20 x 9.00 mm	51.97 x 69.97 x 5.10 mm
Warranty		2 years(MLC) 3 years (SLC)	2 years(MLC) 3 years (SLC)	2 years(MLC)	2 years(MLC) 3 years (SLC)
Part Number		FTDxxGW25x* (SLC) FTMxxGW25x*(MLC)	FHDxxGW25x* (SLC) FHMxxGW25x* (MLC)	FTMxxG825x* (MLC)	FZDxxGW18x* (SLC) FZMxxGW18P (MLC)

* Commecial- Temp: H, Industrial-Temp: I

• I-Temp CF Cards

Capacity: 32GB,16GB, 8GB, 4GB, 2GB, 1GB

- Operating shock rating of 2,000Gs - impact-resistance.
- Power requirements: 3.3V or 5.0V.
- Supports ATA command set.
- Dimensions (approx.): 42.8 x 36.4 x 3.3mm
- Weight: 13g (max.).
- Operating temperature: -40° to 85° C.
- Warranty: 1 Year.

Netbook SSDs

Laptop / Desktop High Performance Storage

As companies compete to release thinner netbooks, Super Talent produces custom solid state drives (SSDs) to advance the netbook industry's desires. The slimmer, lightweight designs present a cost-effective alternative to hard drives in the Ultra Mobile Personal Computing (UMPC) market. Besides portability, Super Talent netbook SSDs fulfill the two most important features for netbook consumers: outstanding reliability and endurance.
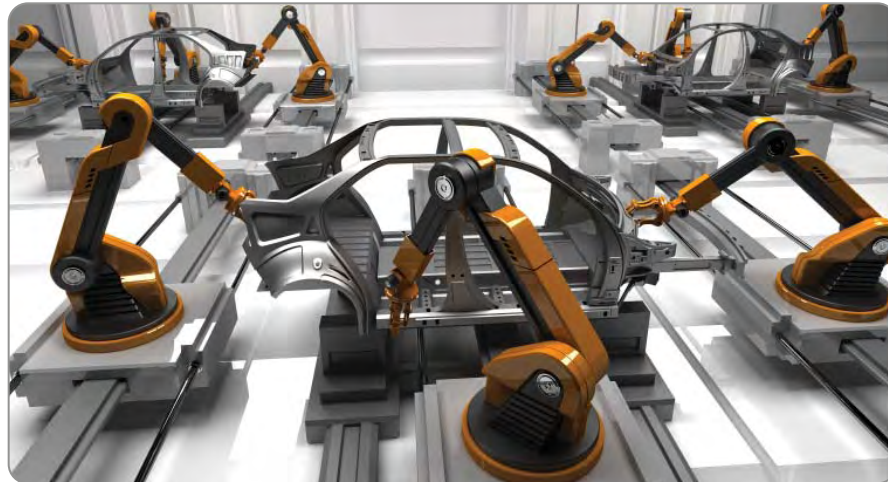

Netbook SSD Upgrade...

Specification		CoreStore MV	Mini PCIe GW	Half Mini PCIe GW	1.3" IDE ZIF	SATA Mini 2 PCIe
Interface		PCIe Gen2x1	IDE/PATA	IDE/PATA	IDE/PATA	SATA-II
Form Factor		Mini PCIe	Mini PCIe	Half miniPCIe	1.3" ZIF	Mini PCIe
Capacities		16 - 128GB(MLC) 16 - 64GB(SLC)	16 - 128GB	16 - 64GB	8-128GB	16-64GB(MLC) 16-32GB(SLC)
DRAM Cache		N/A	N/A	N/A	N/A	N/A
NAND Flash		MLC/SLC	MLC	MLC	MLC	MLC/SLC
Performance	Access Time	0.1ms	0.1ms	0.1ms	0.1ms	0.1ms
MLC	Read/Write (MB/sec)	350/80	110/40	110/40	80/40	150/100
SLC	Read/Write (MB/sec)	350/220				170/130
Netbook Compatibility		N/A	Asus Eee PC 70x, 90x, 1000	Dell Inspiron	Acer Aspire 1	Asus Eee PC 900, 900A, 901, S101
Dimension	mm	30 x 51	32.1 x 69.5	30 x 51	32.1 x 54.1	32.1 x 69.5
Warranty		2 years(MLC) 3 years(SLC)	2 years	2 years	2 years(MLC)	2 years(MLC) 3 years(SLC)
Part Number		SRxxCxMME(MLC) SRxxDxMME(SLC)	FPMxxGWAE	FEMxxGWDL	FEMxxGF13M	FPMxxGLSE (MLC) FPDxxGLSE (SLC)

Specification		mSATA (MO-300B)	mSATA 2 (MO-300B)	mSATA 3 (MO-300B)	Half Mini 2 PCIe
Interface		SATA-II	SATA-II	SATA-II	Custom IDE/PATA
Form Factor		mSATA	mSATA	mSATA	Half miniPCIe
Capacities		16-128GB(MLC)	30-120GB(MLC)	30-120GB(MLC)	8-128GB(MLC) 8-16GB(SLC)
DRAM Cache		N/A	N/A	N/A	N/A
NAND Flash		MLC	MLC	MLC	MLC/SLC
Performance	Access Time	0.1ms	0.1ms	0.1ms	0.1ms
MLC	Read/Write (MB/sec)	160/80	280/255	550/500	80/40
SLC	Read/Write (MB/sec)	N/A	N/A	N/A	80/60
Netbook Compatibility		JEDEC MO-300B compatible	JEDEC MO-300B compatible	JEDEC MO-300B compatible	Dell Inspiron Mini 9
Dimension	mm	30 x 51	30 x 51*	30 x 51*	30 x 51
Warranty		2 years(MLC)	2 years(MLC)	2 years(MLC)	2 years(MLC) 3 years(SLC)
Part Number		SGxxNx5SM	SGxxNx4(8)SM	SGxxNx3SM	FEMxxGFDL (MLC) FEDxxGFDL (SLC)

* World 1st custom offer.

NAND Flash based IDE Flash Disk Modules (FDMs) are ideal for embedded computing applications. The industry standard IDE connector plugs directly into a motherboard using a 40- or 44-pin IDE connector, and uses a 5V power input.

IDE Flash Disk Modules

Specification		40-pin IDE Horizontal	40-pin IDE Vertical	44-pin IDE Horizontal	44-pin IDE Vertical
Interface		IDE/PATA	IDE/PATA	IDE/PATA	IDE/PATA
Capacities		4-64GB	4-64GB	4-64GB	4-64GB
NAND Flash		MLC/SLC	MLC/SLC	MLC/SLC	MLC/SLC
Performance	Access Time	0.1ms	0.1ms	0.1ms	0.1ms
MLC	Read/Write (MB/sec)	110/40	110/40	110/40	110/40
SLC	Read/Write (MB/sec)	110/50	110/50	110/50	110/50
Internal Cache Size		N/A	N/A	N/A	N/A
Power Supply		5V ± 10%	5V ± 10%	5V ± 10%	5V ± 10%
Dimension	mm	49.5 x 31.0	58.2 x 33.6	48.0 x 31.0	55.8 x 33.0
Warranty		2 years(MLC) 3 years(SLC)	2 years(MLC) 3 years(SLC)	2 years(MLC) 3 years(SLC)	2 years(MLC) 3 years(SLC)
Part Number		SFxxNxW41 (MLC) SFxxAxW41 (SLC)	SFxxNxW40 (MLC) SFxxAxW40 (SLC)	SFxxNxW45 (MLC) SFxxAxW45 (SLC)	SFxxNxW44 (MLC) SFxxAxW44 (SLC)

SATA Flash Disk Modules

Specification		7-pin SATA FDM	7-pin SATA DOM	22-pin SATA Horizontal	USB 3.0 FDM	USB FDM
Interface		SATA-II	SATA-II	SATA-II	USB 3.0 FDM	USB 2.0
Capacities		4-128GB	4-32GB	4-128GB	8GB-32GB	4-16GB
NAND Flash		MLC/SLC	MLC/SLC	MLC/SLC	MLC/SLC	MLC/SLC
Performance	Access Time	0.1ms	0.1ms	0.1ms	0.2ms	0.1ms
	Read/Write (MB/sec)	150/80 (MLC) 165/125 (SLC)	45/11	150/80 (MLC) 165/125 (SLC)	85/40	25/10 (MLC) 32/29 (SLC)
Internal Cache Size		N/A	N/A	N/A	N/A	N/A
Power Supply		5V ± 10%	5V ± 10%	5V ± 10%	5V ± 10%	5V ± 10%
Dimension	mm	55 x 33	21.4 x 40.5	55.2 x 30	26.2 X 0.25 4 x 0.25	19 x 46 35 x 21.2
Warranty		2 years(MLC) 3 years(SLC)	2 years(MLC) 3 years(SLC)	2 years(MLC) 3 years(SLC)	2 years(MLC) 3 years(SLC)	2 years(MLC) 3 years(SLC)
Part Number		SMxxNx57R/L(MLC) SMxxAx57R/L(SLC)	SMxxNx57V/H (MLC) SMxxAx57V/H (SLC)	SMxxNx52H (MLC) SMxxAx52H (SLC)	SMxxNx52H (MLC) SMxxAx52H (SLC)	ST3UxxFDM1

Automotive SSDs

Super Talent is already on the road!
· Major manufacturers have already qualified our product for their IVI (in-vehicle infotainment) systems
· Our SSDs are currently in mass production to meet your needs today

DuraDrive AT3

All terrain means our SSDs are durable
• Rated for industrial level temperatures (-40°C to 85°C)
• Integrated SPOR (Sudden Power Off Recovery) algorithm
• Withstands vibration and shock because it has no moving parts
• Supports various form factors to fit into your vehicle or device
  (2.5", 1.8", mini PCIe and custom BGA)

Standard SSD options
• Capacities from 4GB to 240GB
• Built in ECC (error correcting code) for reliability
• Lasts longer using the wear leveling algorithm
• Currently supports Windows CE operating system
• Android, GENIVI and MeeGo support coming soon
• Available in MCP (multi-chip packaging) for a smaller footprint in your system

SSDs perform at highway speeds
• Uses high bandwidth connections such as SATA II
• High read/write speeds

Product lines

DuraDrive AT3

Front
Back

MCP   Half Mini PCIe

USB 3.0 Flash Drives

Super Talent is committed to the USB 3.0 standard and offers the largest selection of USB 3.0 flash drives. Whether you need speed, style, security or affordability, you'll find the perfect drive at Super Talent.

SSD Performance & Reliability...

Largest Selection of USB 3.0 Drives...

SandForce DRIVEN™ By LSI

USB 3.0 Express RC8

- 8 channels SSD controller
- Virtual caching system elevates small block writes
- Perfect for running portable operating systems

RAIDDrive
DUAL 8-CH SSDs provide over 370MB/sec

Up to
Read **371**
Write **196**
(MB/s)

Express RC8
8-CH SSD Performance with SandForce® Write Acceleration

Up to
Read **270**
Write **240**
(MB/s)

SuperCrypt
8-CH SSD Hardware Encrypted Performance

Up to
Read **242**
Write **175**
(MB/s)

Express RAM Cache
4-CH Flash drive with DRAM Caching system

Up to
Read **131**
Write **60**
(MB/s)

Express ST4
New 4 Channel Architecture

Up to
Read **140**
Write **50**
(MB/s)

USB 3.0 Dataguardian
USB 3.0 Password Security

Up to
Read **84**
Write **38**
(MB/s)

Express ST2
USB 3.0 Performance at USB 2.0 Price

Up to
Read **84**
Write **38**
(MB/s)

Express ST1
Next Gen Flash Value line

Up to
Read **91**
Write **16**
(MB/s)

■ 8 Channel	■ Secure	■ 4 Channel	■ 2 Channel	■ DDR Flash

What's a channel?

A channel of flash is a unit of flash memory in the USB drive. Having more channels means the drive can have more capacity and an increase in performance.

What is the difference between ST (standard) vs DDR (double data rate) flash?

Straight flash means that the performance you receive out of your flash drive is at the optimal rate the flash memory can provide. Double data rate flash can outperform straight flash because it allows you to access the flash at twice the number of intervals.

Express RC8

Using 8 channels of flash, virtual caching system and a SSD controller, the Express RC8 is an SSD in USB 3.0 flash drive form factor.

SandForce DRIVEN™ By LSI

Features

- 8 channels SSD controller
- Virtual caching system elevates small block writes
- Perfect for running portable operating systems

Watch the video

SuperCrypt USB 3.0

SuperCrypt USB 3.0 drives are extremely fast, include hardware encryption to keep your data secure, and are offered in a wide range of capacities.

Features

- 8 channels SSD controller
- Hardware Encrypted
- Perfect combination of performance and security
- AES 256bit XTS/ AES 128bit ECB

Watch the video

USB 3.0 Storage POD

Achieve portability and performance with Super Talent's USB 3.0 Storage POD. Having a sleek, black enclosure with an internal rubber grommet, the Storage POD will look stylish while keeping your data safe. Available with either a 500GB HDD or as an enclosure to put your own 2.5" drive into.

- Converts 2.5" SATA drives to USB 3.0
- USB 3.0 interface allows for SATA Read/Write speeds
- Mountless rubber grommet protects from shock and vibration

Watch video of the Storage POD HDD

Watch video of the Storage POD Enclosure

Pico USB Drives *Pico Series*

Pico Series USB drives are incredibly small and stylish flash drives offering up to 64GB data storage. Not only are Pico drives ideal for transporting data, digital images, and presentations, they are also the perfect accessory to adorn keychains, mobile phones, or wear as a necklace.

Water Resistant

World's smallest
64GB USB Drive...

Ordering Information

	2GB	4GB	8GB	16GB	32GB	64GB
A	STU2GPAS	STU4GPAS	STU8GPAS	STU16GPAS		
B	STU2GPBS	STU4GPBS	STU8GPBS	STU16GPBS		
C	STU2GPCS	STU4GPCS	STU8GPCS	STU16GPCS		STU64GPCG
C Gold		STU4GPCG	STU8GPCG	STU16GPCG	STU32GPCG	
C Nickel	STU2GPCN	STU4GPCN	STU8GPCN	STU16GPCN	STU32GPCN	

Pico A
-Swivel Lid
38.7 x 12.4 x 3.9mm

Pico B
- Retractable
31.8 x 18.8 x 4.4mm

Pico C
- Ultra Small Capless
31.3 x 12.4 x 3.4mm

Pico C Gold
- Ultra Small Capless
31.3 x 12.4 x 3.4mm

Pico C Nickel
- Ultra Small Capless
31.3 x 12.4 x 3.4mm

Pico mini USB Drives

Pico mini drives are amazingly small USB drives that weigh only a few grams, but hold up to 4,000 MP3 songs or all your mobile data.
Pico mini drives are water resistant, colorful and trendy, and are offered in capacities of up to 32GB.

Pico mini A   Dimension: 31.8 x 15.0 x 3.2 mm

Pico mini D
Dimension: 30.5 x 15.4 x 3.9 mm

Pico mini B   Dimension: 30.5 x 15.4 x 3.4 mm

Ordering Information

	Pico mini A	Pico mini B	Pico mini D
2GB	STU2GMAP	STU2GMBP	STU2GMDU
4GB	STU4GMAG	STU4GMBG	STU4GMDU
8GB	STU8GMAB	STU8GMBB	STU8GMDU
16GB	STU16GMAK	STU16GMBK	STU16GMDU
32GB	STU32GMAK	STU32GMBK	STU32GMDU

USB Flash Drives *Elite Series, Eco Series*

Nickel Metal
Capacity: 2GB - 32GB
Dimension: 64 x 18 x 11 mm

Ordering Information

Capacity	Nickel Metal
2GB	STU2NIKB
4GB	STU4NIKB
8GB	STU8NIKB
16GB	STU16NIKB
32GB	STU32NIKB

Eco Swivel   Capacity: 2GB - 64GB
Dimension: 66 x 18 x 12 mm

Ordering Information

Capacity	Black	Red	Silver
2GB	STU2GSWD-K	STU2GSWD-R	TU2GSWD-S
4GB	STU4GSWD-K	STU4GSWD-R	STU4GSWD-S
8GB	STU8GSWD-K	STU8GSWD-R	STU8GSWD-S
16GB	STU16GSWD-K	STU16GSWD-R	STU16GSWD-S
32GB	STU32GSWD-K	STU32GSWD-R	STU32GSWD-S
64GB	STU64GSWD-K	STU64GSWD-R	STU64GSWD-S

RM   Capacity: 2GB - 32GB
Dimension: 57.6 x 19 x 10.4 mm

Ordering Information

Capacity	Black	Blue	Red	White
2GB	STU2GRMBK	STU2GRMBL	STU2GRMRR	STU2GRMRW
4GB	STU4GRMBK	STU4GRMBL	STU4GRMRR	STU4GRMRW
8GB	STU8GRMBK	STU8GRMBL	STU8GRMRR	STU8GRMRW
16GB	STU16GRMBK	STU16GRMBL	STU16GRMRR	STU16GRMRW
32GB	STU32GRMBK	STU32GRMBL	STU32GRMRR	STU32GRMRW

CKB   Capacity: 2GB - 32GB
Dimension: 40 x 25.9 x 3.7mm

Ordering Information

Capacity	Silver	Nickel
2GB	STU2GCKBS	STU2GCKBN
4GB	STU4GCKBS	STU4GCKBN
8GB	STU8GCKBS	STU8GCKBN
16GB	STU16GCKBS	STU16GCKBN
32GB	STU32GCKBS	STU32GCKBN

RRT   Capacity: 8GB - 32GB
Dimension: 68.0 x 18.0 x 11.0mm

Ordering Information

Capacity	White
8GB	STU8GRR2W
16GB	STU16GRR2W
32GB	STU32GRR2W

RM2   Capacity: 2GB - 32GB
Dimension: 61 x 19 x 11.6 mm

Ordering Information

Capacity	Black	Blue	Red	White
2GB	STU2GRM2-K	STU2GRM2-B	STU2GRM2-R	STU2GRM2-W
4GB	STU4GRM2-K	STU4GRM2-B	STU4GRM2-R	STU4GRM2-W
8GB	STU8GRM2-K	STU8GRM2-B	STU8GRM2-R	STU8GRM2-W
16GB	STU16GRM2-K	STU16GRM2-B	STU16GRM2-R	STU16GRM2-W
32GB	STU32GRM2-K	STU32GRM2-B	STU32GRM2-R	STU32GRM2-W
64GB	STU64GRM2-K	STU64GRM2-B	STU64GRM2-R	STU64GRM2-W

Encryption Solutions

Your USB Flash drive holds all your most valuable data. Maybe it contains your personal financial records, confidential medical or legal records, customer databases, or other secrets that you wouldn't want to fall into the wrong hands. By encrypting your data, it will be inaccessible to anyone without your encryption password (beware, do not lose your password!).
Super Talent now offers two easy ways to protect the contents of your USB drive.
Our state-of-the-art 256-bit encryption solutions conform to AES-256 standards.

USBENC-H1
- AES-256 compliant hardware encryption
- Supported on most USB models
- Factory enabled only; specify when ordering

USBENC-S1
- EncryptX SecurFlash® AES-256 compliant
  software encryption
- Supported on all USB models
- FIPS 140-1certified
- Factory pre-load only

Flash Media Cards

Super Talent offers a full range of Flash media cards to suit all your mobile storage needs. These products have been tested extensively to ensure compatibility with every conceivable consumer gadget. These cards are all backed with Super Talent's 1-year warranty.

MicroSDHC Cards
Capacity: 32GB, 16GB, 8GB,4GB

Features:
- Power requirements: 2.7V to 3.6V.
- Operating temperature: -25° to 85° C.
- Dimensions (approx.): 15 x 11 x 1mm
- Weight: 0.5g.
- Warranty: 1 Year.
- Optional SD adapter for use in SD devices.

MicroSD Cards
Capacity: 8GB, 4GB,2GB,1GB

Features:
- Power requirements: 2.7V to 3.6V.
- Operating temperature: -25° to 85° C.
- Dimensions (approx.): 15 x 11 x 1mm
- Weight: 0.5g.
- Warranty: 1 Year.
- Optional SD adapter for use in SD devices.

SDHC Cards
Capacity: 32GB,16GB,8GB,4GB

Features:
- Erase protection switch to prevent accidental deleting of data.
- Operating shock rating of 2,000Gs - impact-resistance.
- Power requirements: 2.7V to 3.6V.
- Dimensions (approx.): 32 x 24 x 2.1mm
- Weight: 2.0g (max.).
- Power consumption: Active < 35mA; Standby < 100uA .
- Operating temperature: -25° to 85° C.
- Warranty: 1 Year.

SD Cards
Capacity: 4GB,2GB,1GB

Features:
- Erase protection switch to prevent accidentaldeleting of data.
- Operating shock rating of 2,000Gs - impact-resistance.
- Power requirements: 2.7V to 3.6V.
- Dimensions (approx.): 32 x 24 x 2.1mm
- Weight: 2.0g (max.).
- Power consumption: Active < 35mA; Standby < 100uA .
- Operating temperature: -25° to 85° C.
- Warranty: 1 Year.

CF Cards

• CFast

Super Talent CFast Storage Card is a revolution to the traditional CompactFlash Card, satisfying mobile digital devices storage needs, like PDAs, digital cameras, etc. Super Talent CFast Storage Card has a maximum transfer rate of 100MB/s while still keeping the small original CF mechanical form factor. The new CFast Storage Card breaks the speed bottleneck between the SSD and the device by using SATA interface. With Super Talent CFast Storage Card installed, there will be no waiting time for camera to catch up, and it will be much swifter to view pictures on camera or to copy them to computer.

Capacity: 64GB, 32GB, 16GB

- Seq. Read & Write speed: 120MB/s, 90MB/s
- Operating shock rating of 1600Gs – impact-resistance.
- Power requirement: 3.3V.
- Supports ATA command set.
- Dimensions (approx.): 42.8 x 36.4 x 3.3mm.
- Weight: 13g (max.).
- Operating temperature: 0°C - 70°C
- Warranty: 1 Year
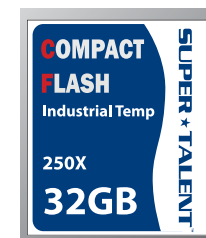- SATA II 3Gbps interface

• High Speed CF Cards

CompactFlash Cards are a fast, reliable, and affordable storage device based on Flash technology. Designed into next-generation consumer products, these cards are used in a wide range of consumer devices including digital cameras, handheld PCs, digital video camcorders, digital music players, car navigation systems, and electronic books. CF cards are used widely in professional digital SLR cameras as well as in embedded computing applications.

Capacity: 64GB, 32GB,16GB, 8GB, 4GB, 2GB

- Operating shock rating of 1600Gs - impact-resistance.
- Speed 600x, 533x, 450x, 350x, 80x
- Power requirements: 3.3V or 5.0V.
- Supports ATA command set.
- Dimensions (approx.): 42.8 x 36.4 x 3.3mm
- Weight: 13g (max.).
- Warranty: 1 Year.

• I-Temp CF Cards

Industrial-grade cards are made to endure severe operating conditions, like high and low operating temperature, continuous vibration, shock, high altitudes, humidity, etc. These products have been tested extensively to ensure high-performance and stability, and support both 3.3V and 5V operation systems.

Capacity: 32GB,16GB, 8GB, 4GB, 2GB, 1GB

- Operating shock rating of 2,000Gs - impact-resistance.
- Power requirements: 3.3V or 5.0V.
- Supports ATA command set.
- Dimensions (approx.): 42.8 x 36.4 x 3.3mm
- Weight: 13g (max.).
- Operating temperature: -40° to 85° C.
- Warranty: 1 Year.

Super Talent Excels at
OverClocking Memory

- *Up to 2400 MHz Clock Speeds*
- *XMP-pre-tuned for Low Latencies*
- *8GB Dual-and 12GB, 24GB Triple-Channel Kits, 32GB Quad Channel kits*

Super Talent understands your need for speed. Our Overclocking Memory excels in engineering design on all fronts. Our DDR3 memory is tuned to speeds of up to 2400MHz and are optimized for dual and triple channel kits for capacities of up to 16GB. Rigorously tested on the latest gamer and PC enthusiast motherboards, you'll notice the difference in a flash.

Features
- Exceptional speeds
- Reliable
- Aggressively tuned latencies
- Efficient
- High capacities
- Superior heat dissipation

Quad Series
Quad Channel support for DDR3

Speed Series
Extreme Performance DDR3

Performance Series
Designed for Core i7

Chrome Series
Optimized for triple channel configurations

Gold series
Advanced heat dispersion

Super Talent Designs
latest DRAM Memory...

✓ **Server Memory** ✓ **Desktop Memory** ✓ **Laptop Memory** ✓ **Apple Memory**

Our selection includes:
- DDR, DDR2, DDR3
- RDIMM, ECC UDIMM, VLP UDIMM, SODIMM, UDIMM, VLP-RDIMM, LRDIMM
- Space and material saving modules
- Low power consumption modules starting at 1.35V
- Speeds from 1333MHz and 1600MHz to 2400MHz
- Sizes from 1GB to 32GB and available in dual and triple channel kits
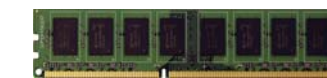
We test for:
- Compliance with JEDEC standards
- Apple compatibility by verifying with the latest Apple products
- The highest performance at the lowest latencies Reliability under stress

Server Memory
- 1GB, 2GB, 4GB, 8GB,16GB, 32GB ECC Registered DIMMs
- 1GB, 2GB, 4GB, 8GB ECC Unbuffered DIMMs
- Ultra-Reliable-Ideal for Mission- Critical Servers

Desktop Memory
- DDR1, DDR2, DDR3
- DIMM modules up to 8GB
- Dual and Triple Channel Kits/ Quad Channel Kits
- Available with or without ECC exceptional thermal dissipation

Laptop Memory
- DDR, DDR2, DDR3
- SO-DIMM module up to 8GB
- JEDEC Compliant
- 100% Tested

Apple® Memory
- 1GB, 2GB, 4GB, and 8GB DDR3-1066, 1333 SO-DIMMs for MacBook Pro, Mac mini, iMac
- 1GB, 2GB, 4GB, and 8GB DDR3-1066 ECC Unbuffered DIMMs for Mac Pro
- Certified in Apple Compatibility Labs

Do more with less.
Green Memory

- Fully JEDEC compliant
- 100% Tested to ensure optimum quality
- DDR, DDR2 & DDR3 DIMMs in capacities up to 16GB
- Very Low Profile modules (0.72" tall)
- DDR3 DIMMs offer 1.35V backward compatible to 1.5V

Leading studies suggest that the explosive growth we've seen in computing power has been matched by growing power demands and cooling costs. Experts predict that power-related costs within the data center will soon be larger than the IT equipment cost contained within them. The realization that power demands have been running largely unchecked has created a new movement within the computing industry, that of "Green IT". We, at SuperTalent, want to go beyond being a DDR3 manufacturer by supporting the effort and creating a comprehensive line of "Green Memory".

DDR3 RDIMM

DDR3 ECC UDIMM

DDR2 RDIMM

DDR3 SODIMM

Our Green Memory:

• Uses less voltage – Needs 1.35V
• Has a smaller form factor - Only 0.72" tall
• Requires less cooling
• Performs more efficiently
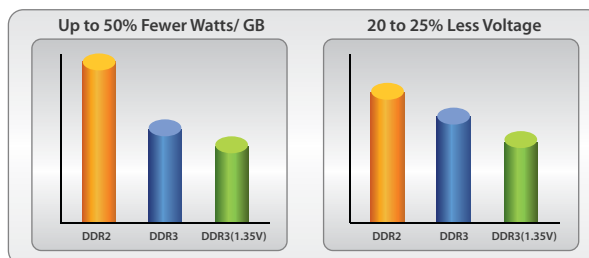• Runs at higher speeds – Up to 1600MHz

New type of Memory -
Offering twice the data rate of its predecessor, DDR3 also typically uses 30% less power.

Up to 50% Fewer Watts/ GB	20 to 25% Less Voltage
DDR2 DDR3 DDR3(1.35V)	DDR2 DDR3 DDR3(1.35V)

Apple® **M**emory

Super Talent has Apple-approved DIMMs!

Super Talent memory modules are designed for 100% compatibility with the latest Mac computers. Super Talent tests its memory on all the leading Apple systems in Apple's certification labs.

DDR3 Apple-approved DIMM

Mac Mini
(1.66/1.83GHz, Core2 Duo 2.0/2.26GHz)
1GB, 2GB DDR3 SODIMM

Mac Pro
(Dual, Quad & 8-Core)
1GB, 2GB, 4GB, 8GB DDR3 ECC

iMac
(iMac Intel Core2Duo,QC i520/21.5/24/27"DDR3)
1GB,2GB,4GB, 8GB DDR3 SODIMM

13" MacBook Pro
(MC700, MC724, MD101))
2GB, 4GB, 8GB DDR3 SODIMM

15" MacBook Pro
(MC721, MC723, MD104)
2GB, 4GB, 8GB DDR3 SODIMM

17" MacBook Pro
(MC725)
2GB, 4GB DDR3 SODIMM

DDR2 Apple-approved DIMM
MacBook/ MacBook Pro/ iMac G5
1GB, 2GB DDR2 SODIMM

Guaranteed 100% Compatible!
Check your system's user manual to find out the allowed maximum memory and the type that is supported. To maximize your Mac's performance, using more memory is better.

Choosing Super Talent's Apple approved DIMMs guarantees compatibility to your Mac system.