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 to provide innovative solutions, improve your time to market, and reduce costs.

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

Manufacturing
Super Talent uses state-of-the-art ISO 9001 certified technical equipment and leading-edge components to manufacture its memory products.

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

Logistics
Super Talent logistic services are flexible in order to meet various customer needs, including retail and bulk packaging, procurement, inventory management, transportation, and more.

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

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

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

SUPER ★ TALENT®
THE BEST MEMORY

www.supertalent.com

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SUPER ★ TALENT®
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2013
Storage Solutions

Solid State Drives   **USB 3.0 Flash Drives**   **Memory Modules**   **CF Cards**

480GB 2.5" SOLID STATE DRIVE

64GB CFast

www.supertalent.com

Solid State Drives

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

- The SSD Review

Enterprise Server/Workstation

RAIDDrive SSDs

Designed specifically for enterprise servers and storage systems, our blazing fast RAIDDrive SSDs use patent pending RAID architecture and a PCIe x 8 interface to support burst read speeds of up to 2.5GB/s and burst write speeds of up to 3.0GB/s, increasing application performance while reducing latency and costs.

RAIDDrive GS
- PCIe x8 interface
- Burst speed (max): Read 1.4GB/s, write 1.2GB/s
- Capacities up to 2TB
- Supports up to 140K IOPS

RAIDDrive II
- Server write back capability
- 2.5GB/s read, 3.0GB/s write
- PCIe x8 (Gen2) host interface
- Capacities up to 2TB

Specification		RAIDDrive GS	RAIDDrive II
Interface		PCIe x8	PCIe x8 (Gen 2)
Form Factor		PCIe	PCIe
Capacities		256GB - 2TB	480GB - 2TB
NAND Flash		MLC	MLC
Performance	Access Time	0.1ms	0.1ms
Burst Speed	Read/Write (MB/sec)	1400/1200	2500/3000
RAID Function		0/5	0/5
RAID Cache Size		512MB	1GB
Number of Port		4port/8port with Expander	8 port
Battery Backup		No	No
Reliability (MTBF)		>1,500,000 hrs	>1,500,000 hrs
Dimensions (mm)		255 x 107 x 25.4	224.6 x 94.0 x 20.0
Part Number		RGSxxxx	R2Sxxxx

* *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.

Garbage Collection and TRIM Support

Garbage Collection is a feature on all of our SSDs that will keep your drive running at optimum performance throughout its life. It runs in the background, seeking out invalid data blocks and preparing them to be written to quickly and efficiently. Garbage Collection doesn't require OS participation and works with everything from Windows® to Linux® and OS X®.

TRIM is an operating system feature by which the OS passes 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 keep the SSD performing like new. It is supported by Windows 7 and Windows Server 2008 R2, Linux (kernel 2.6.32 and beyond), and OS X (10.6 and beyond).

SuperNova SSD

SuperNova™ SSDs are perfect for large corporations, small companies, and even consumers seeking extreme performance. Using the SATA III interface, the SuperNova can read and write over 500MB/s. SuperNova SSDs also feature S.M.A.R.T. – Self Monitoring Analysis and Reporting Technology – which can help prevent unexpected outage or data loss by detecting and reporting on a number of reliability indicators. The SuperNova is our highest-performing, most secure and reliable SSD yet.

Features
- Perfect for super computing
- Over 500MB/s read/write speeds
- Thermal conductive silicon padding
- Underfilling technology
- Supports S.M.A.R.T.

Specification		SuperNova SSD
Interface		SATA III
Form Factor		2.5"
Capacities		128GB, 256GB
NAND Flash		MLC
Performance	Access Time	0.1ms
	Read/Write (MB/sec)	555/525
Super Cap		No
Internal Cache Size		N/A
Power Supply		5V ± 10%
Reliability (MTBF)		>1,200,000 hrs
Dimensions (mm)		69.85 x 100.20 x 7
Warranty		3 years
Part Number		FTMxxS325H

TeraDrive SSDs

The TeraDrive™ line is our enterprise offering. Exclusively featuring advanced SandForce™controllers, the TeraDrive delivers exceptional performance using state-of-the-art algorithms and proprietary RAISE™ technology to increase reliability and endurance. Supporting up to 50,000 IOPS, the TeraDrive is ideal for database servers and represents the pinnacle of performance in enterprise storage.

Features
- SATA III & II interface
- Protection from sudden power loss
- Best for enterprise data centers

Specification		TeraDrive CT2	TeraDrive CT3	TeraNova
Interface		SATA II	SATA III	SATA III
Form Factor		2.5"	2.5"	2.5"
Capacities		55, 115, 240, 480GB	60, 120, 240, 480GB	60, 120, 240, 480GB
NAND Flash		MLC	MLC	MLC
Performance	Access Time	0.1ms	0.1ms	0.1ms
	Read/Write (MB/sec)	Up to 280/270	Up to 550/520	Up to 540/520
Super Cap		No	No	No
Internal Cache Size		N/A	N/A	N/A
Power Supply		5V ± 10%	5V ± 10%	5V ± 10%
Reliability (MTBF)		>1,000,000 hrs	>2,000,000 hrs	>1,000,000 hrs
Dimensions (mm)		69.85 x 100.2 x 9.50	69.85 x 100.2 x 9.00	69.85 x 100.2 x 9.00
Warranty		2 years	2 years	2 years
Part Number		FTMxxC225H	FTMxxC325H	FTMxxN325H

Desktop/Laptop

VSSD Bolt

The Super Talent VSSD Bolt™ brings performance and solid-state technology together at an incredible price. With a new SandForce controller, the VSSD Bolt has read/write speeds of 250MB/s – up to 3x faster than the previous generation VSSDs. Available in capacities from 16GB to 120GB, the VSSD Bolt allows customers to enter the SSD world on a limited budget while still enjoying the performance and reliability gains SSDs bring to their computers.

Features
- Budget friendly
- Enterprise level quality and reliability
- Up to 250 read, 250 write (MB/s)
- Capacities up to 120GB

Specification		Value SSD Bolt
Interface		SATA II
Form Factor		2.5 " HDD
Capacities		16, 32, 64, 120GB
DRAM Cache		N/A
NAND Flash		MLC
Performance	Access Time	0.1ms
	Read/Write (MB/sec)	250/250
Internal Cache Size		N/A
Power Supply		5V ± 5%
Reliability (MTBF)		>1,000,000 hrs
Dimensions (mm)		69.85 x 100.20 x 9.00
Warranty		2 years
Part Number		FTMXXG425V

Mobile/Tablet

Mini PCIe SSDs

Super Talent produces a selection of SSDs designed specifically for upgrading popular netbook models. Upgrading to an SSD provides shorter boot up times, faster application loading, and less power consumption than a traditional hard disk.

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

Mini PCIe GW

Half Mini PCIe GW

SATA Mini 2 PCIe

mSATA SSDs

Our JEDEC MO-300B compatible mSATA SSDs are perfect for systems with limited storage space, such as tablets – all without sacrificing performance. And we offer OEM customers the opportunity to customize the length and width of the PCB boards for their specific needs.

mSATA 2 (MO-300B)

mSATA 3 (MO-300B)

Specification		mSATA 2 (MO-300B)	mSATA 3 (MO-300B)
Interface		SATA II	SATA II
Form Factor		mSATA	mSATA
Capacities		30 - 120GB(MLC)	30 - 120GB(MLC)
DRAM Cache		N/A	N/A
NAND Flash		MLC	MLC
Performance	Access Time	0.1ms	0.1ms
	Read/Write (MB/sec)	280/255	550/500
Netbook Compatibility		JEDEC MO-300B compatible	JEDEC MO-300B compatible
Dimensions (mm)		30 x 51*	30 x 51*
Warranty		2 years(MLC)	2 years(MLC)
Part Number		SGxxNx4(8)SM	SGxxNx3SM

*Dimensions can be customized for OEMs.

Industrial

DuraDrive SSDs

Super Talent's DuraDrive™ SSDs represent state-of-the-art storage solutions for industrial, embedded, and military applications. These SSDs deliver unprecedented vibration, shock, humidity, altitude, and temperature tolerances while delivering impressive speeds. Our industrial grade DuraDrive line is military tested and recommended.

Features

- Support temperatures between -40°C to 85°C
- Withstand shocks of up to 1500G
- Capacities up to 256GB
- Up to 250 read, 170 write (MB/s)

Specification		DuraDrive AT2	DuraDrive ET2	DuraDrive AT3
Interface		SATA II	IDE/PATA	SATA II
Form Factor		2.5"	2.5"	2.5"
Capacities		16GB - 128GB (SLC) 32GB - 256GB (MLC)	16GB - 128GB (SLC) 32GB - 256GB (MLC)	32GB - 256GB (MLC)
DRAM Cache		64MB	64MB	128MB
Performance	Read/Write (MB/sec)	Up to 125/110	Up to 125/110	Up to 250/170
Dimensions (mm)		69.9 x 100.2 x 9.5	69.9 x 100.2 x 9.5	69.85 x 100.20 x 9.00
Part Number		FTDxxGW25x (SLC) FTMxxGW25x (MLC)	FHDxxGW25x (SLC) FHMxxGW25x (MLC)	FTMxxG825I (MLC)

DISCLAIMER:
Actual usable memory capacity may vary. 1MB equals 1 million bytes; 1GB equals 1 billion bytes.

Embedded Storage Solution Experts

- Automotive • Aerospace • Medical
- Manufacturing • Mobile Devices

Embedded

FDM

Super Talent's line of SSDs also extends to small form factor systems. NAND Flash based IDE Flash Disk Modules (FDMs) are well suited for a wide range of industrial and embedded computing applications from laptops to surveillance equipment, and even medical instruments or point-of-sale terminals. The industry standard IDE connector plugs directly into a motherboard using a 40 or 44-pin IDE connector and uses a 5V power input.

USB/SATA Flash Disk Modules

Specification		USB 3.0 FDM	7-pin SATA FDM	7-pin SATA DOM	22-pin SATA Horizontal
Interface		USB 3.0 FDM	SATA II	SATA II	SATA II
Capacities		8GB-32GB	4-128GB	4-32GB	4-128GB
NAND Flash		MLC/SLC	MLC/SLC	MLC/SLC	MLC/SLC
Performance	Access Time	0.2ms	0.1ms	0.1ms	0.1ms
MLC	Read/Write (MB/sec)	85/40	150/80 (MLC)	45/11	150/80 (MLC)
SLC	Read/Write (MB/sec)	N/A	165/125 (SLC)	N/A	165/125 (SLC)
Internal Cache Size		N/A	N/A	N/A	N/A
Power Supply		5V ± 10%	5V ± 10%	5V ± 10%	5V ± 10%
Dimensions (mm)		32.2 x 26.2 x 4	55 x 33	34 x 21	55.2 x 30 x 10.6
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		SMxxNx52H (MLC) SMxxAx52H (SLC)	SMxxNx57R/L(MLC) SMxxAx57R/L(SLC)	SMxxNx57V/H (MLC) SMxxAx57V/H (SLC)	SMxxNx52H (MLC) SMxxAx52H (SLC)

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%
Dimensions (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)

CoreStore MV/MP

The ultra-compact CoreStore MV offers huge performance gains over a traditional hard disk. The mini-PCIe card form factor is perfect for embedded applications, industrial PCs, all-in-one PCs, netbooks, and notebooks. And the CoreStore MP is a PCIe backplane SSD which can be added to almost any PC. By plugging it into the PCIe bus, the CoreStore MP bypasses the SATA speed bottleneck, and is the very latest in NAND flash technology.

CoreStore MV   CoreStore MP

Specification		CoreStore MV	CoreStore MP
Interface		PCIe Gen2 x1	PCIe Gen2 x1
Form Factor		Mini PCIe	PCIe x 1
Capacities		16 - 128GB(MLC) 16 - 64GB(SLC)	16 - 128GB(MLC) 16 - 64GB(SLC)
DRAM Cache		DDR2 64MB	DDR2 64MB
NAND Flash		ONFI2.0 MLC/SLC	ONFI2.0 MLC/SLC
Performance	Access Time	0.1ms	0.1ms
	Read/Write (MB/sec)	350/80	350/80
Dimensions (mm)		30 x 50.95	65 x 80
Warranty		2 years(MLC) 3 years(SLC)	2 years(MLC) 3 years(SLC)
Part Number		SRxxCxMME(MLC) SRxxDxMME(SLC)	SRxxCxMP1(MLC) SRxxDxMP1(SLC)

USB 3.0 Drives

Compact, reliable, and backwards compatible with USB 2.0, our line of blazing fast flash drives makes the conversion to USB 3.0 simple.

USB 3.0 Express RC8

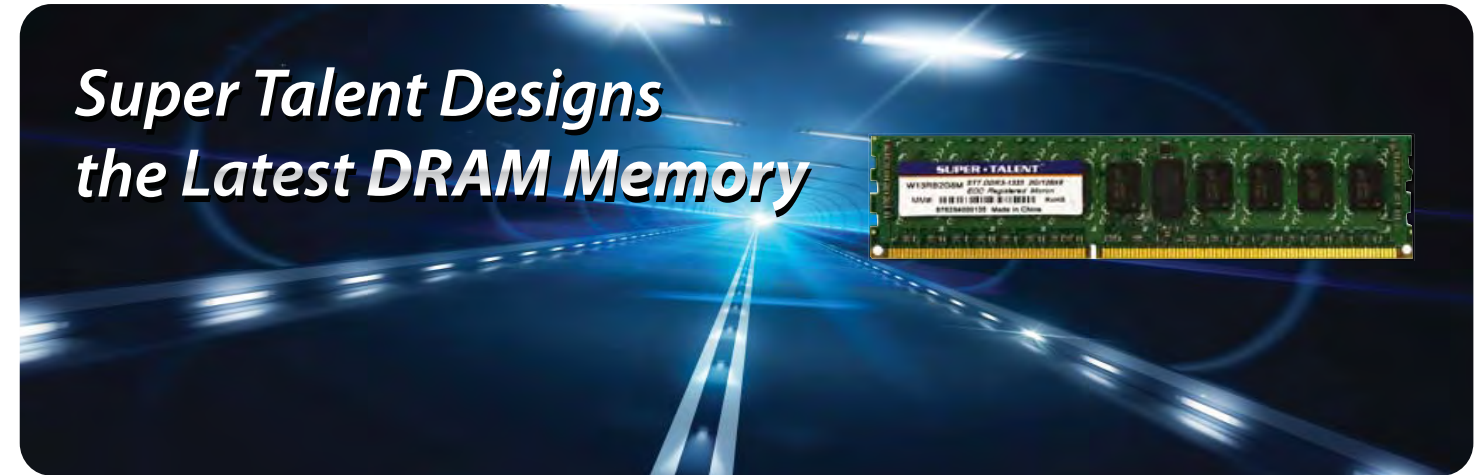### Certified Bootable Flash Drive for Microsoft© Windows 8 feature Windows To Go

- Full 8 Channel SSD Architecture
- SandForce SSD Controller
- Enterprise Level Provisioning

SandForce DRIVEN™ By LSI

Windows 8 Compatible

Specification		SuperCrypt	Express RC8	Bolt RC4	DataGuardian
Description		8 channel SSD hardware encrypted performance	8 channel SSD performance with SandForce® write acceleration	4 Channel SSD performance with SandForce® write acceleration.	Password protected drive
Interface		USB 3.0	USB 3.0	USB 3.0	USB 3.0
Capacities		16, 32, 64, 128, 256 GB	25GB, 50GB, 100GB	25GB, 50GB	8GB, 16GB, 32GB
NAND Flash		MLC	MLC	MLC	MLC
Performance	Seq. Read*	Up to 240 MB/sec	Up to 270 MB/sec	up to 180 MB/sec	Up to 85 MB/sec
	Seq Write*	Up to 184 MB/sec	Up to 220 MB/sec	up to 100 MB/sec	Up to 40 MB/sec
OS Support		Windows XP, Vista, Windows 7	Windows XP, Vista, Windows 7, Windows 8, Mac OS X	Windows XP, Vista, Windows 7, Windows 8, Mac OS X	Windows XP, Vista, Windows 7
Reliability (MTBF)		+1,000,000 hours	+1,000,000 hours	+1,000,000 hours	+1,000,000 hours
Data Integrity		10 years	10 years	10 years	10 years
Shock (operating)		1500G, 3 axis	1500G	1500G	1500G
Vibration (operating)		16G, each axis	16G	16G	16G
Operating Temperature		0°C to +70°C	0°C to +70°C	0°C to +70°C	0°C to +70°C
Dimensions (mm)		95 x 34 x 15.4	92.7 x 25 x 8	87 x 27 x 9.55	70 x 18 x 8
Warranty		5 years	5 years	5 years	5 years
Part Numbers		ST3UxxSCS	ST3UxxGR8S	ST3UxxGR4S	ST3UxxDGS

*Performance varies depending on drive capacity, system configuration, application and other factors. Usable capacity is less than specified after formatting.

Memory Products

Designed in compliance with JEDEC specifications, Super Talent DRAM memory delivers unparalleled performance and reliability in mission critical applications. We offer high product quality by using only major brand components and rigorously testing all our memory modules, thus delivering consistently high performance you can count on. Our DDR3 family of products include ECC registered modules, ECC unbuffered modules, unbuffered DIMMs, and SO-DIMMs. We also offer very low profile modules (0.70"/0.72"/0.74" tall) for blade servers and AdvancedTCA (ATCA) applications.

Super Talent Designs the Latest DRAM Memory

■ DDR3 ECC Registered

Capacities: 1, 2, 4, 8, 16, & 32GB
Voltage Support: 1.35, 1.5V
Speeds: 1066, 1333, & 1600MHz
*VLP option available

■ DDR3 UDIMM

Capacities: 1, 2, 4, & 8GB
Voltage Support: 1.35, 1.5V
Speeds: 1066, 1333, & 1600MHz
*VLP option available

■ DDR3 SO-DIMM

Capacities: 1, 2, 4, & 8GB
Voltage Support: 1.35, 1.5V
Speeds: 1066, 1333, & 1600MHz

CFast/Compact Flash Cards

Super Talent offers a full line of flash media cards that are fast, reliable, and affordable. Designed into many consumer and industrial electronic products, these cards are used in a wide range of applications, including digital cameras, phones, handheld PCs, digital video camcorders, digital music players, car navigation systems, and electronic books.
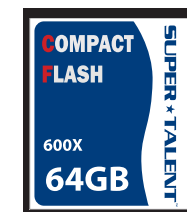
CFast
Capacities: 64GB, 32GB, 16GB

High Speed CFast™ SUPER·TALENT 64GB

- Flash type: MLC, SLC
- Seq. read & write speed: 120MB/s, 90MB/s
- Operating shock rating of 2,000Gs impact resistance
- Power requirements: 3.3V
- Supports ATA command set
- Dimensions (approx.): 42.8 x 36.4 x 3.3mm
- Weight: 13g (max)
- Operating temperature: 0°C to 70°C
- Storage temperature: -20°to 85° C
- Warranty: 1 year
- SATA II interface

High Speed CF Cards
Capacities: 64GB, 32GB, 16GB, 8GB, 4GB, 2GB

COMPACT FLASH 600X SUPER·TALENT 64GB

- Operating shock rating of 2,000Gs 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

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