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

SUPER * TALENT® THE BEST MEMORY

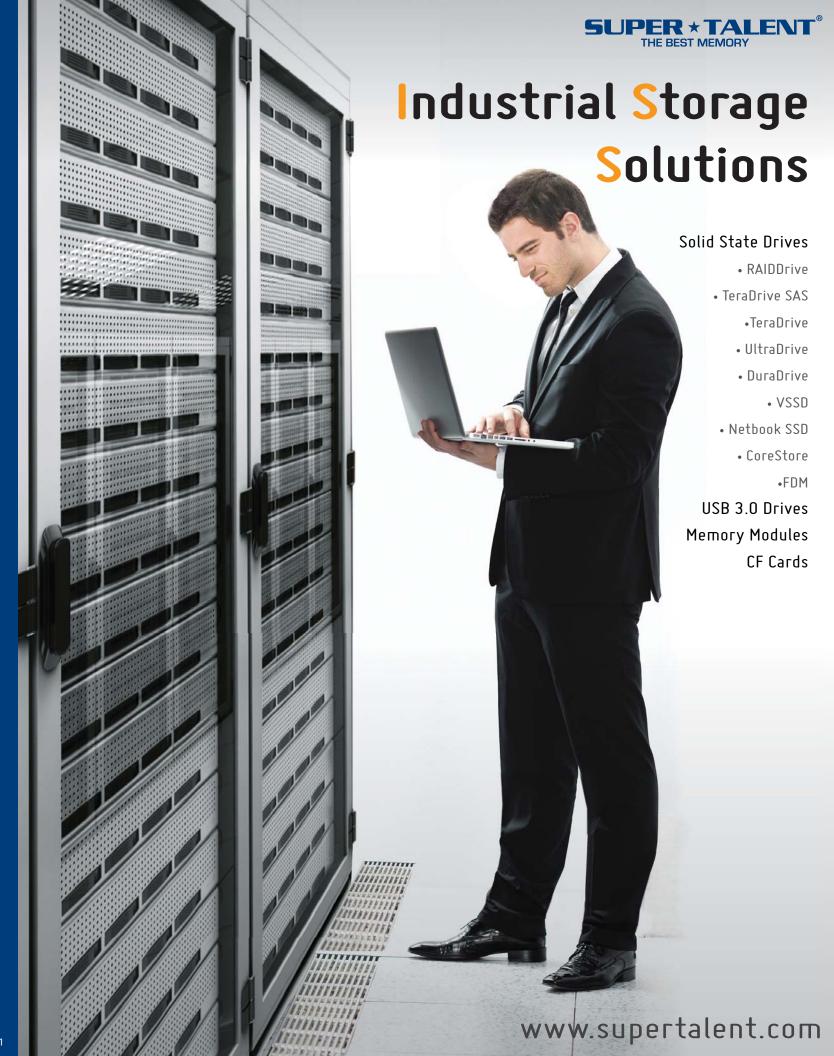
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Solid State Drives

Enterprise Server

Server, Workstation, Extreme Performance

- RAIDDrive
- TeraDrive SAS
- TeraDrive

Laptop/Desktop

High Performance Storage

- UltraDrive
- DuraDrive
- VSSD - Netbook SSD

Industrial/Military/ Embedded

Military, Aerospace, Industrial, Medical, Embedded Systems

- DuraDrive
- CoreStore
- FDM

Enterprise Server

RAIDDrive SSDs

Built for the Enterprise server, our RAIDDrive SSD increases application performance and reduces latency by providing unparalleled bandwidth of up to 4GB/s. Designed to fit into a low profile server, the SuperTalent RAIDDrive can simplify your IT infrastructure while reducing operating and capital costs.

Specification		RAIDDrive R2S	RAIDDrive GS	
Interface	Interface		PCIe x8	
Controller		LSI ROC 2108	Intel IOP 348	
Form Factor		PCIe Card	PCIe Card	
Capacities		500GB, 1TB, 2TB	256GB - 2TB	
NAND Flash		MLC	MLC	
Performance	Access Time	0.1ms	0.1ms	
	Read/Write (MB/sec)	2400/2200	1400/1200	
RAID Level Sup	port	0/5	0/5	
RAID Cache Size	9	1GB 512MB		
Number of Port	t	8 port	4/8 (with Expander)	
Battery Backup		Optional	Optional	
MTBF		>1,500,000 hrs	>1,500,000 hrs	
Dimension	Dimension mm		255 x 107 x 25.4	
Part Number		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.





RAIDDrive R2S

- PCIe x8 (Gen2) host interface
- Burst Speed (max): Read 2.4GB/s, Write 2.2GB/s
- Capacities up to 2TB
- Support 150K IOPS





RAIDDrive GS

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

TeraDrive SAS

TeraDrive SAS is an SSD designed for the Data Center and Server Market. The TeraDrive SAS supports the new SAS interface which offers: more reliably, higher signal integrity and support for longer cable lengths.





Features

- Ultimate Reliability
- Best for Enterprise Data Center
- 2 Full Duplex SAS Interface Port
- Capacity up to 400GB

Specification **TeraDrive SAS** Interface 2 full duplex SAS 6Gb/s **Form Factor** 2.5" **Capacities** 100GB - 400GB **NAND Flash** SLC/MLC ONFI2 Performance Access Time 0.1msec Read/Write (MB/sec) 500/500 **Data Cache** No **Supporting Sector Size (Byte)** 512 / 520 / 524 / 528 **Super Cap** Yes **MTBF** >1,000,000 hrs **Dimension** 70 x 100 x 10.5 Warranty 2 years (MLC), 3 years (SLC) **Part Number** SExxxxx25S

TeraDrive SSDs (SATA III)

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.





Features

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

Specification		TeraDrive FT3	TeraDrive CT3
Controller		SandForce 25xx	SandForce 22xx
Form Factor		2.5"	2.5"
Capacities		50,100, 200, 400GB	60, 120, 240, 480GB
NAND Flash		MLC/SLC (ONFi2)	MLC (ONFi2)
Super Cap		Yes	No
Internal Cache	Size	N/A	N/A
Reliability	MTBF	>1,000,000 hrs	>1,000,000 hrs
Dimension	mm	69.85 x 100.2 x 9.5	69.85 x 100.2 x 9.5
Warranty	MLC	2 years	2 years
SLC		3 years	N/A
Part Number	MLC	FTMxxF325H	FTMxxC325H
	SLC	FTDxxF325H	N/A

Laptop/Desktop

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 SSDs

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







Features

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

Specification		UltraDrive MX2	
Interface		SATA II, mini-USB connection	
Form Factor		2.5 "	
Capacities		60GB - 480GB	
NAND Flash		MLC/SLC	
Performance	Access Time	0.1ms	
	Read/Write (MB/sec)	Up to 250/180	
Internal Cache	Size	64MB	
Power Supply		5V ± 5%	
Environment	Vibration	16G	
	Shock	1500G	
	Op Temperature	0-70 °C	
Reliability	MTBF	>1,000,000 hrs	
Noise	Active	0dB	
Dimension	mm	69.9 x 100.2 x 9.5	
Warranty	MLC	2 years	
	SLC	3 years	
Part Number	MLC	FTMxxM225H	
	SLC	FTDxxM225H	

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

Laptop/Desktop

DuraDrive SSDs

*Military, Industrial-Temp, Secure Erasw supported.





DuraDrive AT2

DuraDrive ET2

Super talent is proud to say our industrial grade DuraDrive line has been military recommended, tested and approved. These SSDs have far better shock and vibration resistance, support broader operating temperature and altitude ranges, and use a fraction as much power compared to hard disk drives.

Specification		DuraDrive AT2	DuraDrive ET2	DuraDrive AT3
Interface		SATA II	IDE/PATA	SATA II
Form Factor		2.5"	2.5"	2.5"
Capacities	MLC	32GB - 256GB	32GB - 256GB	32GB - 256GB
	SLC	16GB - 128GB	16GB - 128GB	16GB - 128GB
NAND Flash	NAND Flash		SLC/MLC	SLC/MLC
Performance	Access Time	0.1ms	0.1ms	0.1ms
	Read/Write (MB/sec)	125/110	125/110	250/180
Dimension	mm	69.9 x 100.2 x 9.5	69.9 x 100.2 x 9.5	69.9 x 100.2 x 9.5
Warranty	MLC	2 years	2 years	2 years
	SLC	3 years	3 years	3 years
Part Number	MLC	FTMxxGW25x	FHMxxGW25x	FTMxxG825x
	SLC	FTDxxGW25x	FHDxxGW25x	FTDxxG825x

VSSD

Super Talent VSSD brings performance and solid-state technology together at an incredible price. Available in capacity of 8GB to 64GB, Super Talent provides customers options to entering SSD world with limit budget, but no compromise in the performance.







Specification	1	Value SSD	
Interface		SATA II	
Form Factor		2.5 "	
Capacities		8GB - 64GB	
NAND Flash		MLC	
	Access Time	0.1ms	
	8GB R/W (MB/s)	90/30	
Performance	16GB R/W (MB/s)	90/30	
	32GB R/W (MB/s)	150/60	
	64GB R/W (MB/s)	150/100	
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		FTMxxGL25V	

Netbook SSDs

Super Talent produces a selection of SSDs designed specifically to upgrade popular netbook models. Upgrading the SSD in a netbook is the fastest, easiest and most economical way to boost performance and get more utility from the netbook.

Specification	Specification		Half Mini PCIe GW	SATA Mini 2 PCle	mSATA (MO-300B)	1.3" IDE ZIF	Half Mini 2 PCle
Interface		IDE/PATA	IDE/PATA	SATA II	SATA II	IDE/ZIF	IDE/PATA
Form Factor		Mini PCle	Half Mini PCle	Mini PCle	mSATA	1.3" ZIF	Half Mini PCle
Capacities	MLC	32GB-128GB	16GB-64GB	16GB-64GB	16-128GB	8GB-64GB	16GB-32GB
'	SLC	N/A	N/A	16GB-32GB	N/A	N/A	8-16GB(SLC)
NAND Flash		MLC	MLC	MLC/SLC	MLC	MLC	MLC/SLC
Performance	Access Time	0.1ms	0.1ms	0.1ms	0.1ms	0.1ms	0.1ms
MLC	Read/Write (MB/sec)	115/50	110/40	150/100	80/40	80/40	80/40
SLC	Read/Write (MB/sec)	N/A	N/A	170/130	N/A	N/A	80/60
Netbook Comp	atibility	Asus Eee PC	Dell Inspiron	Asus Eee PC	JEDEC MO-300B	Acer Aspire 1	Dell Inspiron
	-	70x, 90x, 1000		900, 900A, 901, S101	compatible		Mini 9
Dimension	mm	32.1 x 69.5	30 x 51	32.1 x 69.5	29.85 x 50.8	32.1 x 54.1	30 x 51
Warranty	MLC	2 years	2 years	2 years	2 years	2 years	2 years
	SLC	N/A	N/A	3 years	N/A	N/A	3 years
Part Numbers	MLC	FPMxxGWAE	FEMxxGWDL	FPMxxGLSE	SGxxNxxSM	FEMxxGF13M	FEMxxGFDL
	SLC	N/A	N/A	FPDxxGLSE	N/A	N/A	FEDxxGFDL

Industrial/Military/ Embedded

CoreStore MV/MP





CoreStore MV

CoreStore MP

The CoreStore MV offers huge performance gains and an ultra-compact size. The standard mini-PCIe card form factor is perfect for Embedded Applications, Industrial PCs, All-in-One PCs, Netbook PCs and Notebooks. The CoreStore MP is a PCIe backplane SSD which can be added to almost any PC. By plugging directly into the PCIe bus, the CoreStore MP completely bypasses the SATA bottle neck, and is the very latest in technology in NAND flash today.

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

Super Talent's line of SSDs also extends to small form factor systems. 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.

SATA Flash Disk Modules

Specification		7-pin SATA FDM	7-pin SATA DOM	22-pin SATA Horizontal	USB FDM	
		APPENDING TO A STATE OF THE STA	The state of the s	W. 101	Vertical Horizontal	
Interface		SATA II	SATA II	SATA II	USB 2.0	
Capacities		4-128GB	4-32GB	4-128GB	4-16GB	
NAND Flash		SLC/MLC	SLC/MLC	SLC/MLC	SLC/MLC	
Performance	Access Time	0.1ms	0.1ms	0.1ms	0.1ms	
	Read/Write (MB/sec)	150/80(MLC), 165/125(SLC)	45/11(MLC)	150/80(MLC), 165/125(SLC)	25/10 (MLC), 32/29 (SLC)	
Power Supply		5V ± 5%	5V ± 5%	5V ± 5%	5V ± 5%	
Dimension	mm	55 x 33	21.4 x 40.5	55.2 x 30	46 x 19(ver), 35 x 21.2(Hor)	
Warranty	MLC	2 years	2 years	2 years	2 years	
-	SLC	3 years	3 years	3 years	3 years	
Part Number	MLC	SMxxNx57R/L	SMxxNx57V/H	SMxxNx52H	FLMxGQ09x	
	SLC	SMxxAx57R/L	SMxxAx57V/H	SMxxAx52H	FLDxGQ09x	

IDE Flash Disk Modules

Specification		40-pin Horizontal	40-pin Vertical	44-pin Horizontal	44-pin Vertical
		MATERIAL AND AND PARTIES OF THE PART	Flash Code Musical SEPANIWAG COMMISSION OF STREET S	SECURITY TAKENT Flac Date Model SPECIALIZATION and Management of the Park S	IN A PIRE - FALLENT IDE Flush Mondie STRANSPORE TRANSPORE THE STRANSPORE REPLIES REPLIES
Interface		IDE/PATA	IDE/PATA	IDE/PATA	IDE/PATA
Capacities		4GB-128GB (ver 2)	4GB-128GB (ver 2)	4GB-128GB (ver 2)	4GB-128GB (ver 2)
		4GB-64GB (ver 3)	4GB-64GB (ver 3)	4GB-64GB (ver 3)	4GB-64GB (ver 3)
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)	80/40 (ver 2), 110/40 (ver 3)	80/40 (ver 2), 110/40 (ver 3)	80/40 (ver 2), 110/40 (ver 3)	80/40 (ver 2), 110/40 (ver 3)
SLC	Read/Write (MB/sec)	80/50 (ver 2), 110/50 (ver 3)	80/50 (ver 2), 110/50 (ver 3)	80/50 (ver 2), 110/50 (ver 3)	80/50 (ver 2), 110/50 (ver 3)
Power Supply		5V ± 5%	5V ± 5%	5V ± 5%	5V ± 5%
Dimension	mm	49.5 x 31.0	58.2 x 33.6	49.5 x 31.0	58.2 x 33.6
Warranty	MLC	2 years	2 years	2 years	2 years
	SLC	3 years	3 years	3 years	3 years
Part Number	MLC (ver2)	SFxxNxF41	SFxxNxF40	SFxxNxF45	SFxxNxF44
	SLC (ver2)	SFxxAxF41	SFxxAxF40	SFxxAxF45	SFxxAxF44
	MLC (ver3)	SFxxNxW41	SFxxNxW40	SFxxNxW45	SFxxNxW44
	SLC (ver3)	SFxxAxW41	SFxxAxW40	SFxxAxW45	SFxxAxW44

USB 3.0 Flash Drives

Super Talent is proud to announce its newest line of USB 3.0 flash drives. Compact, reliable, and backwards compatible to USB 2.0 our line of blazing fast flash drives makes the conversion to USB 3 simple.



World's First USB 3.0 Flash Drive

- RAIDDrive USB 3.0 Extreme Performance
- **SuperCrypt** Hardware Encrypted SSD Performance
- Express RAM Cache 32MB Cache delivers SSD performance
- Express DUO USB 3.0 Value-line Performance

Specification		RAIDDrive	SuperCrypt	Express RAM Cache	Express DUO
		MATERIAL PARAMETERS	SAFER HARD	Marine Bases	W-199-14644
Interface		USB 3.0	USB 3.0	USB 3.0	USB 3.0
Capacities		32GB - 128GB	16GB- 256GB	16GB - 64GB	8GB - 32GB
NAND Flash		MLC	MLC	MLC	MLC
Performance	Seq. Read*	up to 370 MB/sec	up to 240 MB/sec	up to 130 MB/sec	up to 67 MB/sec
	Seq. Write*	up to 196 MB/sec	up to 184 MB/sec	up to 60 MB/sec	up to 18 MB/sec
OS Support		Windows XP, Vista,	Windows XP, Vista,	Windows XP, Vista,	Windows XP, Vista,
		Windows 7	Window 7	Windows 7	Windows 7
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(operatin	ıg)	1500G	1500G	1500G	1500G
Vibration(operation)	ating)	16G	16G	16G	16G
Operting Temp	erature	0°C to +70°C	0°C to +70°C	0°C to +50°C	0°C to +50°C
Dimension mm		95 x 34 x 15.4	95 x 34 x 15.4	87.5 x 25 x 8.0	80.82 x 20.62 x 12.1
Warranty		5 years	5 years	5 years	5 years
Part Numbers		ST3UxxSRK	ST3UxxSPS (SuperCrypt Pro) ST3UxxSCS (SuperCrypt)	ST3UxxERS	ST3UxxE2CK

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

Storage POD

Completely powered by the USB bus, the Storage Pod requires no external power adapter or drivers to install, making it the perfect traveling companion. The Storage POD is simply the next generation of optimal external storage, without the compromises.



Specification

- Device : USB 3.0 Storage POD™
- Interface : USB 3.0
- Capacity: 500GB/1TB
- Dimensions (LxWxH) :129 x81 x 15 mm (129x81x17mm-1TB)
- Seq. Read/ Write: 90 MB/s, 55 MB/s
- Storage Media: 2.5" SATA HDD
- Power Supply: 5.0V DC Supplied from the USB port(s)
- Operating Temperature : 5°C 55°C
- Operating Systems supported : Windows 7, Vista, XP Mac OS X 10.4 or later (only USB 2.0 currently supported) Linux Kernel 2.6.31 or later

Storage POD Mini

The Storage Mini is an external storage USB 3.0 SSD that utilizes a Sand Force controller, and is secured with a write protection switch to prevent unintentional writes; protecting the end user of the drive from viruses and malware. Accompanied with this products many features and high speed performance, the Storage POD Mini sets a new standard for portable size and convenience.



Specification

- Device : USB 3.0 Storage POD™ Mini
- Interface : USB 3.0
- Capacity: 120/240/480GB
- Dimensions (LxWxH) :116 x 68 x 10 mm
- Seq. Read/ Write: 240 MB/s, 150 MB/s
- Storage Media: 2.5" SATA SSD
- Power Supply: 5.0V DC Supplied from the USB port(s)
- Operating Temperature : 0°C 70°C
- Operating Systems supported : Windows 7, Vista, XP Mac OS X 10.4 or later (only USB 2.0 currently supported) Linux Kernel 2.6.31 or later

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, thus delivering high consistent performance you can count on. Our Server products include DDR, DDR2, and DDR3 ECC Registered modules, ECC Unbuffered modules, and DDR2 Fully Buffered DIMMs. We also offer very low profile modules (0.70" / 0.72" tall) for blade servers and Advanced TCA applications.

DDR3 ECC Registered



Capacities: 8GB, 4GB, 2GB, 1GB Speeds: 1066/1333MHz *VLP option available

DDR2 ECC Registered



Capacities: 4GB, 2GB, 1GB, 512MB Speeds: 400/533/667/800 MHz *VLP option available

DDR ECC Registered



Capacities: 2GB, 1GB, 512MB, 256MB Speeds: 266/333/400MHz

DDR3 ECC UDIMM



Capacities: 4GB, 2GB, 1GB Speeds: 1066/1333/1600 MHz

DDR2 FB DIMM



Capacities: 2GB, 1GB, 512MB Speeds: 533/667/800 MHz

SO-DIMM



DDR3: Capacities to 4GB Speeds to 1333MHz

DDR2: Capacities to 2GB Speeds to 800MHz **DDR1:** Capacities to 1GB Speeds to 400MHz

Super Talent offers a full line of flash media cards that are fast, reliable and affordable. Designed into many consumer electronic products, these cards are used in a wide range of consumer applications including: digital cameras, phones, handheld PCs, digital video

CF Cards 600X PRO

- 90 Read / 90 Write (MB/s)

Realtime recording application

- 64GB/32GB/16GB

camcorders, digital music players, car navigation systems, and electronic books.

Compact Flash Cards

CFast

Capacity: 64GB, 32GB, 16GB



- Seq. Read & Write speed: 120MB/s, 90MB/s
- Operating shock rating of 2000Gs 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

High Speed CF Cards

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



- 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.).

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.).

64GB

Operating temperature: -40° to 85° C.

CFast Card Reader



- USB 3.0 to CFast interface - Speed up to 300MB/s - USB 3.0/USB 2.0 compatible
- Support CFast type I
- LED indicates USB 3.0/2.0 status

Warranty: 1 Year