

PATA-SSD/SATA-SSD & SD Chip



Cactus Technologies
 high capacity solid state
 drives and chips:

**SATA and PATA SSDs, SD Chip,
 IDE, USB and mSATA DOM:**

- ◆ Industrial Grade SLC-NAND flash memory for highest endurance, small block performance and reliability.
- ◆ Standard Grade MLC-NAND flash memory for cost-effective solutions that do not need high endurance cycles.

All products are being manufactured according to ISO 14001 and DIN ISO 9001 standards. Together with Bill-of-Material (BOM) Control and guaranteed long term availability Cactus technologies is offering flash memory products of the highest quality.



	PATA SSD 1.8" & 2.5"	SATA SSD 2.5" OEM Standard	BGA Flash Module SD-Chip
Features	High Performance	High Performance	High Performance
Application:	Industrial	Low Cost Industrial	Industrial
Memory Type:	SLC NAND	MLC NAND SLC NAND	SLC NAND
BOM Control	YES	Yes	Yes
Cycle:	Long Life Cycle	Long Life Cycle	Long Life Cycle
Capacities:	128MB - 32GB	8GB - 128GB	128MB- 4GB
Pro Feature Set:	for 2.5" available	NA	NA
Endurance Cycles:	>2 Million	100k >2 Million	>2 Million
MTBF (hours)	4 Million	200k 4 Million	4 Million
Warranty:	5 Years	3 Years 5 Years	5 Years
Standard Temp.:	0° to +70°C	0° to +70°C	-25° to +85°C
Extended Temp.:	-45° to +90°C	NA -45° to +90°C	-45° to +90°C
Sequential Read:	35 MB/sec	140 MB/sec 145 MB/sec	22 MB/sec
Sequential Write:	20 MB/sec	85 MB/sec 110 MB/sec	16 MB/sec
Random Read:	30 MB/sec	70 MB/sec 75 MB/sec	18 MB/sec
Random Write:	3.5 MB/sec	15 MB/sec 20 MB/sec	5 MB/sec
Shock / Vibration:	3000G / 20G	3000G / 20G	3000G / 20G
Max. Bus Speed:	66 MB/sec	1.5/3.0 Gbits/sec	25 MB/sec

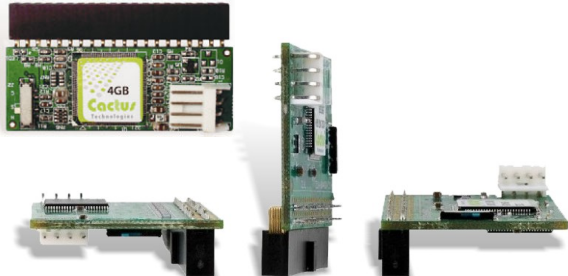
Pro Features:

- ➔ ATA Security Feature Set: Password set/disable, Unlock, Erase, etc.
- ➔ CTPurge: erase only, Erase and Overwrite with random data once or n-times
- ➔ Write Protect: Multiple Methods (Hard-/Software)
- ➔ CTLock: Lock Card to Host System

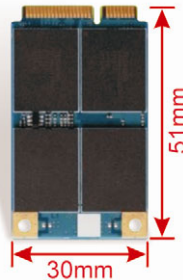
IDE DOM/USB DOM/mSATA



40 pin IDE-DOM



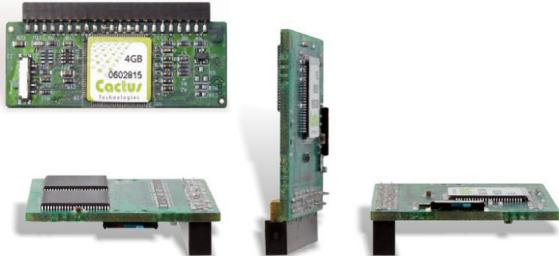
mSATA
(mini SATA)



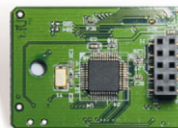
2.5" SATA SSD



44 pin IDE-DOM



uDOM
(USB DOM)



	IDE DOM 40 & 44 Pins	USB 1.1/2.0 DOM OEM Standard	mSATA Module OEM Standard
Features	High Performance	High Performance	High Performance
Application:	Industrial	Low Cost Industrial	Low Cost Industrial
Memory Type:	SLC NAND	MLC NAND SLC NAND	MLC NAND SLC NAND
BOM Control:	Yes	Yes	Yes
Cycle:	Long Life Cycle	Long Life Cycle	Long Life Cycle
Versions:	40 & 44pin Vertical Horizontal L & R	10 Pin USB 2.00 & 2.54 Pitch	_____
Capacities:	128MB – 8GB	1GB – 16GB 128MB – 8GB	4GB – 64GB 4GB – 16GB
Endurance Cycles:	>2 Million	100K >2 Million	100K >2 Million
MTBF (Hours):	4 Million	200K 6.5 Million	200K 4 Million
Warranty:	5 Years	3 Years 5 Years	3 Years 5 Years
Standard Temp.:	0° to +70°C	0° to +70°C	0° to +70°C
Extended Temp.:	-45° to +90°C	NA -45° to +90°C	NA -45° to +90°C
Sequential Read:	35 MB/sec	30 MB/sec 30 MB/sec	65 MB/sec 72 MB/sec
Sequential Write:	20 MB/sec	10 MB/sec 25 MB/sec	22 MB/sec 55 MB/sec
Random Read:	30 MB/sec	25 MB/sec 30 MB/sec	32 MB/sec 37 MB/sec
Random Write:	3.5 MB/sec	4 MB/sec 9.5 MB/sec	6 MB/sec 10 MB/sec
Shock / Vibration:	3000G / 20G	TBD	3000G / 20G
Max. Bus Speed:	66 MB/sec	12/480 Mbits/sec	1.5/3.0 Gbits/sec
UDMA:	up to Mode 4	_____	_____

On request the OEM Standard Grade products are also available with single-channel controller for additional price reduction.