

Compact Flash (CF) - Card



Cactus Technologies
 high capacity solid state
 removable devices:

CF Memory Card, SD-Card, SD Chip and USB Drive:

- ◆ 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.



Features	OEM Standard	High Performance
Application:	Low Cost Solution	Industrial Grade
Memory Type:	MLC NAND	SLC NAND
BOM Control:	Yes	Yes
Cycle:	Long Life Cycle	Long Life Cycle
Pro Feature Set:	NA	Yes
Capacities:	1GB – 32GB	128MB – 16GB
Endurance Cycles:	100K	>2 Million
MTBF (Hours):	200K	4 Million
Warranty:	3 Years	5 Years
Standard Temp.:	0°C to +70°C	0°C to +70°C
Extended Temp.:	NA	-45°C to +90°C
Sequential Read:	45 MB/sec	35 MB/sec
Sequential Write:	19 MB/sec	20 MB/sec
Random Read:	40 MB/sec	30 MB/sec
Random Write:	5.5 MB/sec	3.5 MB/sec
Shock / Vibration	3000G / 30G	3000G / 30G
UDMA:	up to Mode 6	up to Mode 4

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

SD-Card / SD-Chip & USB



Features	OEM Standard SD-Card	High Performance SD-Card/Chip	OEM Standard USB	High Performance USB
Application:	Low Cost	Industrial Grade	Low Cost	Industrial Grade
Memory Type:	MLC NAND	SLC NAND	MLC NAND	SLC NAND
BOM Control:	Yes	Yes	Yes	Yes
Cycle:	Long Life Cycle	Long Life Cycle	Long Life Cycle	Long Life Cycle
Capacities:	1GB – 16GB	128MB – 8GB Card 128MB – 4GB Chip	1GB – 16GB	128MB – 8GB
Endurance Cycles:	100K	>2 Million	100K	>2 Million
MTBF (Hours):	200K	4 Million	200K	6.5 Million
Warranty:	3 Years	5 Years	3 Years	5 Years
Standard Temp.:	-25°C to +85°C	-25°C to +85°C	0°C to +70°C	0°C to +70°C
Extended Temp.:	NA	-45°C to +90°C	NA	-45°C to +90°C
Sequential Read:	19 MB/sec	22 MB/sec	30 MB/sec	30 MB/sec
Sequential Write:	10 MB/sec	16 MB/sec	10 MB/sec	25 MB/sec
Random Read:	15 MB/sec	18 MB/sec	25 MB/sec	30 MB/sec
Random Write:	4 MB/sec	5 MB/sec	4 MB/sec	9.5 MB/sec
Shock / Vibration:	50G / 15G	50G / 15G Card 3000G / 30G Chip	TBD	TBD

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