

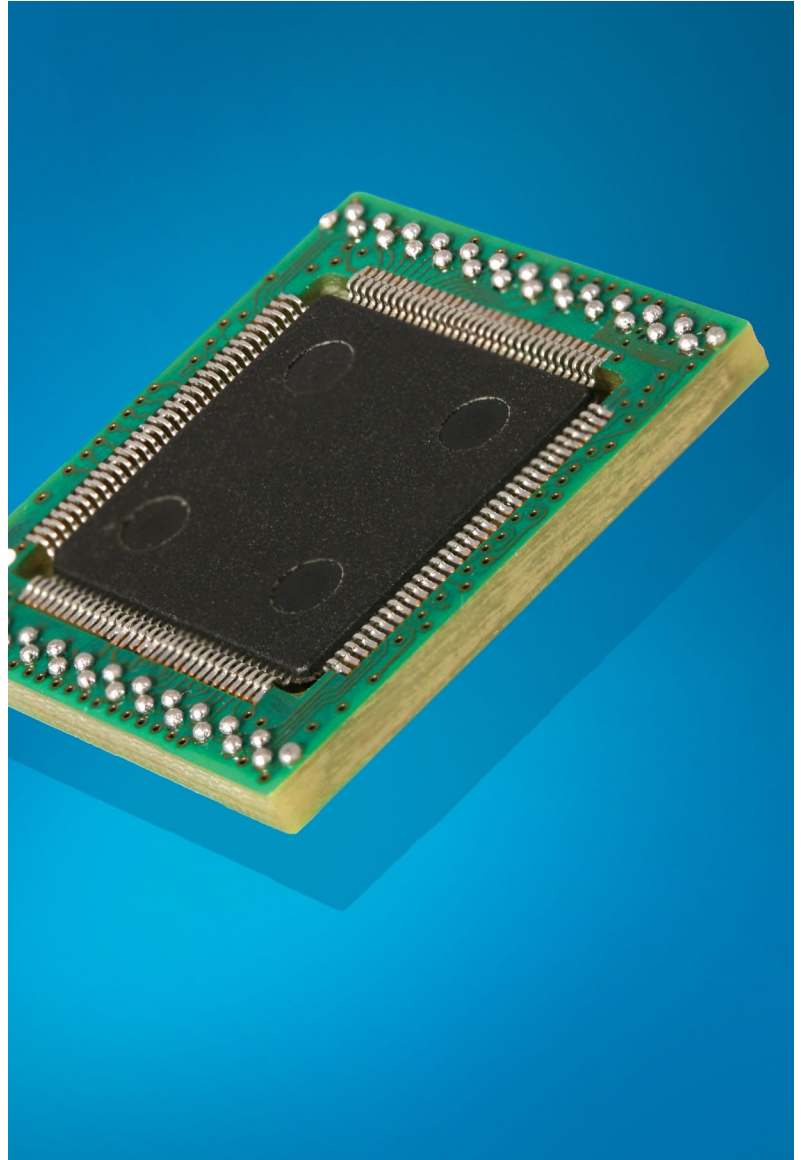
DFC

DFC

DFC (Discrete Flash Card) is a case-less, connector-less compact flash card with a BGA footprint for directly soldering to PCBs. These rugged, board-mounted SSD's are designed for harsh environments and to eliminate overall system cost and potential reliability issues associated with removable Compact Flash cards.

DFC is a SWaP (Size, Weight and Power) optimized design tailored for the harsh environmental demands of military applications. Ideal for storing OS software or microcode, Viking DFC is also well-suited for embedded real time processing or for mobile low power applications.

Additionally, embedded error detection / correction and wear-leveling are provided to deliver enhanced reliability and enhanced product lifetime.



DFC FEATURES

- Read up to 20 MB/s
- Write up to 20 MB/s
- Operation Voltage 3.3V & 5V
- Fully compliant with Compact Flash Association Specifications version 4.1
- Supports Compact Flash card specification revision 4.1
- Supports PCMCIA Extended Memory mode
- Supports IDE PIO Mode 0 ~ 6
- Supports IDE Multi-Word DMA Mode 0 ~ 4
- Support IDE Ultra DMA Mode 0 ~ 5
- Support PCMCIA Ultra DMA Mode 0 ~ 5
- Industrial temperature version available
- Embedded ECC function and wear leveling
- RoHS 5 Compliant

CAPACITY

SLC	Up to 8GB
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PERFORMANCE

Sustained Read / Write	20MB/sec
Interface	PATA / IDE / CF 4.1

RELIABILITY

ECC	8-bit
Bit Error Rate (BER)	< 1 in 10 ¹⁴ bits read
Endurance	5 yrs +

DIMENSIONS

Length	0.8 in
Width	0.895 in
Height	0.135 in

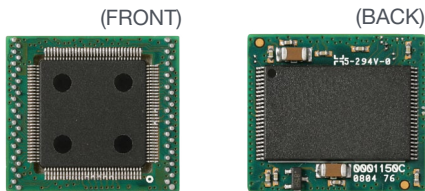
ENVIRONMENTAL

Shock	50g (11ms/Axis)x3 Axis, 1/2 Sine Wave, positive and negative
Vibration	16.4g rms ten 2000Hz 3 Axis
Commercial Temp	0°C to 70°C
Non-operating Temp	-40°C to +85°C
Altitude	80,000 ft
Humidity	5% to 95%
Test Standard	MIL-STD-810

POWER

Voltage	3.3V & 5V
Active	1.65mW
Idle	250.8mW

Discrete Flash Card (DFC)



DFC PART NUMBERS

Capacity	Part #
128MB	VRFD40128EC6
256MB	VRFD40256EC9
512MB	VRFD40512EC7
1GB	VRFD41024ECE

Global Locations

US Headquarters

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