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

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

**RELIABILITY**
- ECC 8-bit
- Bit Error Rate (BER) < 1 in 10¹⁴ 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)

**(FRONT) (BACK)**

**DFC PART NUMBERS**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Part #</th>
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<tbody>
<tr>
<td>128MB</td>
<td>VRFDFC40128EC6</td>
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<td>256MB</td>
<td>VRFDFC40256EC9</td>
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<td>512MB</td>
<td>VRFDFC40512EC7</td>
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<td>1GB</td>
<td>VRFDFC41024ECE</td>
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Global Locations

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<tr>
<th>US Headquarters</th>
<th>Europe</th>
<th>Asia Pacific</th>
<th>Japan</th>
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<tbody>
<tr>
<td>20091 Ellipse</td>
<td>Lerchenstrasse 1 D-91710</td>
<td>No 2 Chai Chee Drive</td>
<td>Shinagawa Grand Central Tower 6F</td>
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<tr>
<td>Foothill Ranch, CA 92610</td>
<td>Gunzenhausen Germany</td>
<td>Singapore, 109840</td>
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