



TuffDrive® CF – CompactFlash Card

PE Class, SLC, Industrial

VTDCFBPI004G-V11

Product Brief - Rev. 1.0

See Datasheet for all details



Description

Virtium's TuffDrive® CF is solid-state drive (SSD) technology in an industry-standard CompactFlash form factor designed for the unique capacity, workload and product lifecycle requirements of a broad range of embedded systems, including networking, industrial automation, medical equipment, gaming systems, point-of-sale terminals, data recorders and wearable computers.

Features

Capacity

- 4 GB

SLC NAND

Performance

- Sequential Read: 47 MB/s
- Sequential Write: 37 MB/s

Voltage Supply

- 5V ±10%
- 3.3V ±5%

Power Consumption⁽¹⁾

- Typical: 0.75 W
- Maximum: 0.85 W
- Idle: 0.40 W

Temperature Ranges

- Industrial: -40°C to 85°C
- Non-Operating: -40°C to 85°C

Reliability

- MTBF: >4M hours
- Data retention: 10 years at new, 1 year at rated endurance
- 10,000 insertion cycle count

Supported

- Field upgradeable firmware functionality
- Optimized architecture for faster boot-up times.
- Built-in BCH ECC capable of correcting up to 96-bits in 1KB data.
- SMART Attribute Reporting

vtGuard® Power-Fail Protection

- Data protection during unexpected power-down
- Preserves static data through power loss event

Mechanical Dimensions

- Length x Width x Height mm (inches)
36.40 (1.433) x 42.80 (1.685) x 3.30 (0.130)

Compliance

- CF 4.1 Standard compatible
- ATA-7 Standard compatible in TrueIDE Mode.
- PCMCIA 2.1
- RoHS

Environmental (Non-operating)

- Humidity (non-condensing): 5% to 95%
- Shock: 1500G, half-sine wave, 0.5ms duration
- Vibration: 20G, 20 Hz - 2000 Hz

(1) Based on a 5.0V power supply



Electrostatic Discharge (ESD) can damage this device. When handling the device, always wear a grounded wrist strap and use a static dissipative surface.



Any damage to the unit that occurs after its removal from the shipping package and ESD protective bag is the responsibility of the user.