

TuffDrive® CF

Industrial Grade CompactFlash

128MB – 64GB (PE)



**Industrial Embedded
Technology for an
Interconnected World**

**TuffDrive CF cards are
ideal for industrial
automation, networking,
and medical applications
that require a small form
factor**



**Designed, programmed, built
and supported in the U.S. -
fortified by locations
worldwide.**

Overview

Virtium's TuffDrive® CF CompactFlash cards are designed for the unique capacity, workload and product longevity requirements of a broad range of embedded systems.

As rugged storage solutions, TuffDrive CF products meet MIL-STD-810 standards for shock, vibration and altitude. Virtium backs its world-class storage products with a five-year warranty and delivers the longest product life cycles in the industry.

Applications

TuffDrive CF CompactFlash cards are ideal for industrial automation, networking and medical applications that require high performance in a small, framed, "eject-able" form factor.

An industry standard backed by the CompactFlash Association, CompactFlash is a true workhorse in industrial embedded systems with tens of millions of installations worldwide.

Features

- Standard and industrial temperature
- SMART attribute reporting
- Global static and dynamic wear leveling
- Field upgradeable firmware functionality
- Compliance:
 - UDMA Mode 4

- PCMCIA memory and I/O mode
- FCC, CE, UL, RoHS, WEEE
- CFA 3.0 and 4.1

Specifications			
Operating temp (standard, industrial)	0°C to 70°C, -40°C to 85°C		
MTBF	2M hours		
Environmental	MIL-STD-810		
Power-down protection	vtGUARD™		
Endurance	100K		
Data retention	10 years at <10% endurance; 1 year at max endurance		
Dimensions (mm)	36.4 x 42.8 x 3.3		
Warranty	5 years		
Class		PE	
Product Family	4A8	1C1	1A7 / 1B7
Capacity Range	128MB to 512MB	1GB to 16GB	32GB to 64GB
Read/write sequential¹ (MB/s)	Up to 18 / 16	Up to 40 / 20	Up to 106 / 78
NAND Flash	SLC	SLC	SLC
CFA Compliance	CFA 3.0	CFA 4.1	CFA 4.1

1: 1GB = 1,000,000,000 bytes

Ordering Information

VTDCFAP(C/I)yyy(G/M)-zzz	VTDCFAP	Virtium TuffDrive CF
	(C/I)	Commercial / Industrial operating temp
	yyy	Capacity
	(G/M)	GB (1GB = 1,000,000,000 bytes) MB (1MB = 1,000,000 bytes)
	zzz	Family (4A8, 1C1, 1A7, 1B7)

Virtium manufactures memory and storage solutions for the world's top industrial embedded OEMs. For 18 years we have designed, built and supported our products in the USA - fortified by a network of global locations. Our world-class technology and unsurpassed support provide a superior customer experience that continuously results in better industrial embedded products for our increasingly interconnected world.

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