



TuffDrive™



DESCRIPTION:

The Virtium TuffDrive™ Compact Flash (CF) VCF Series is an industrial and commercially graded Flash storage solution that provides rugged storage solutions for single board computers and industrial systems. It is designed to solve a broad range of OEM concerns from compatibility, booting and power cycling issues to speed, cost and long-term supply. The TuffDrive™ industrial CF VCF product family is available in a broad range of densities from 128 MB to 16GB and features speeds up to 40 MB/s read and 30 MB/s write.

The CF Form factor is directed towards higher speeds, offering densities ranging from 2GB to 16GB and speeds up to 80MB/s read and 75 MB/s write.

The Virtium TuffDrive™ Difference:

- Enhanced firmware/ hardware circuits with support of dedicated FAE at customer's site to overcome complicated SATA host compatibility or OS issues.
- Custom testing to meet customer requirements and resolve SATA issues—power cycling, data corruption, endurance, and ECC Errors.
- Specialize in industrial-grade flash storage solutions for embedded systems, providing B.O.M control and extended product line support.

Industrial CF VCF Series

Densities: 128MB- 16GB

FEATURES:

Industrial temperature -40° to +85° C with density from 128MB to 16GB SLC NAND FLASH

Speeds up to 80MB/s read; 75MB/s write

Enhanced Power cycling to prevent data corruption

Controller firmware performs wear leveling and ECC functions

S.M.A.R.T. command support; Write protection, ECC

Higher reliability compared to traditional rotating media

BENEFITS:

Long-term sustainable product lifecycle support—5 years minimum.

B.O.M. Control results in consistent, compatible and reliable product performance.

Consistent supply and advanced product change notification helps to avoid manufacturing interruptions.

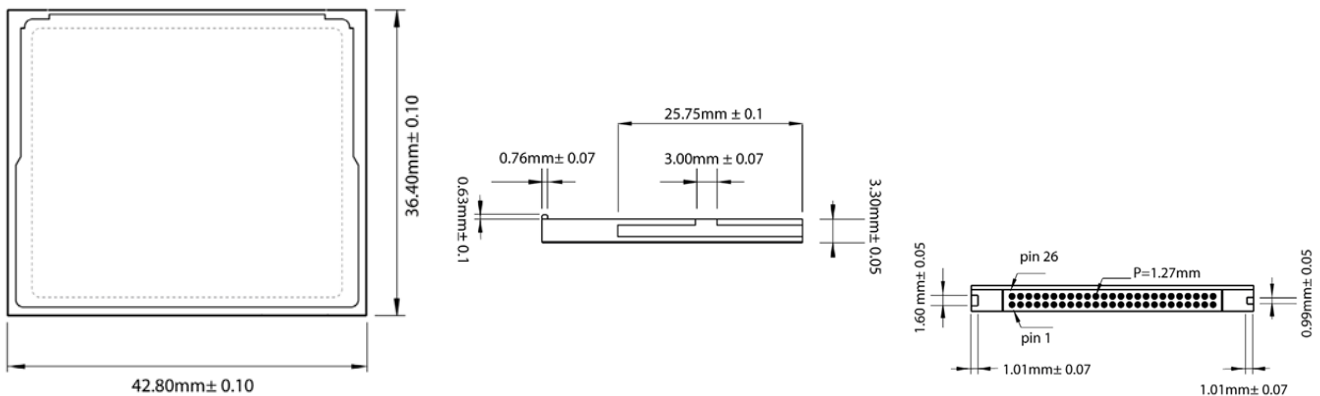
APPLICATIONS:

Embedded Systems, Military, Aerospace, Networking/Telecom, Storage Server, Medical, Gaming

Virtium TuffDrive™ Industrial CF Series

SERIES	DENSITY	OPERATING TEMP.	READ SPEED	WRITE SPEED	FLASH TYPE	PC CARD SUPPORT	DMA ENABLE D	P/N
VCF-100	128MB	-40°C - +85°C	20MB/s	15MB/s	SLC	Removable	Yes	VCF1-128-50IS-AA
VCF-100	256MB	-40°C - +85°C	20MB/s	15MB/s	SLC	Removable	Yes	VCF1-256-50IS-AA
VCF-100	512MB	-40°C - +85°C	20MB/s	15MB/s	SLC	Removable	Yes	VCF1-512-50IS-AA
VCF-100	1GB	-40°C - +85°C	40MB/s	30MB/s	SLC	Removable	Yes	VCF1-01G-50IS-AA
VCF-100	2GB	-40°C - +85°C	40MB/s	30MB/s	SLC	Removable	Yes	VCF1-02G-50IS-AA
VCF-100	4GB	-40°C - +85°C	40MB/s	30MB/s	SLC	Removable	Yes	VCF1-04G-50IS-AA
VCF-100	8GB	-40°C - +85°C	40MB/s	30MB/s	SLC	Removable	Yes	VCF1-08G-50IS-AA
VCF-100	16GB	-40°C - +85°C	40MB/s	30MB/s	SLC	Removable	Yes	VCF1-16G-50IM-AA
VCF-200	2GB	-40°C - +85°C	80MB/s	75MB/s	SLC	Not supported	Yes	VCF2-02G-20IS-AA
VCF-200	4GB	-40°C - +85°C	80MB/s	75MB/s	SLC	Not supported	Yes	VCF2-04G-20IS-AA
VCF-200	8GB	-40°C - +85°C	80MB/s	75MB/s	SLC	Not supported	Yes	VCF2-08G-20IS-AA
VCF-200	16GB	-40°C - +85°C	80MB/s	75MB/s	SLC	Not supported	Yes	VCF2-16G-20IS-AA
VCF-300	128MB	-40°C - +85°C	25MB/s	20MB/s	SLC	Removable	Yes	VCF3-128-50IS-AA
VCF-300	256MB	-40°C - +85°C	25MB/s	20MB/s	SLC	Removable	Yes	VCF3-256-50IS-AA
VCF-300	512MB	-40°C - +85°C	25MB/s	20MB/s	SLC	Removable	Yes	VCF3-512-50IS-AA
VCF-300	1GB	-40°C - +85°C	45MB/s	40MB/s	SLC	Removable	Yes	VCF3-01G-50IS-AA
VCF-300	2GB	-40°C - +85°C	45MB/s	45MB/s	SLC	Removable	Yes	VCF3-02G-50IS-AA
VCF-300	4GB	-40°C - +85°C	45MB/s	45MB/s	SLC	Removable	Yes	VCF3-04G-50IS-AA
VCF-300	8GB	-40°C - +85°C	45MB/s	45MB/s	SLC	Removable	Yes	VCF3-08G-50IS-AA

Mechanical Outlines



Virtium Technology provides memory and solid state storage solutions for single board computers and high-reliability systems.

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Virtium TuffDrive™ Commercial CF Series

SERIES	DENSITY	OPERATING TEMP.	READ SPEED	WRITE SPEED	FLASH TYPE	PC CARD SUPPORT	DMA ENABLED	P/N
VCF100	128MB	0°C - +70°C	20MB/s	15MB/s	SLC	Removable	Yes	VCF1-128-50CS-AA
VCF100	256MB	0°C - +70°C	20MB/s	15MB/s	SLC	Removable	Yes	VCF1-256-50CS-AA
VCF100	512MB	0°C - +70°C	20MB/s	15MB/s	SLC	Removable	Yes	VCF1-512-50CS-AA
VCF100	1GB	0°C - +70°C	40MB/s	30MB/s	SLC	Removable	Yes	VCF1-01G-50CS-AA
VCF100	2GB	0°C - +70°C	40MB/s	30MB/s	SLC	Removable	Yes	VCF1-02G-50CS-AA
VCF100	4GB	0°C - +70°C	40MB/s	30MB/s	SLC	Removable	Yes	VCF1-04G-50CS-AA
VCF100	8GB	0°C - +70°C	40MB/s	30MB/s	SLC	Removable	Yes	VCF1-08G-50CS-AA
VCF100	16GB	0°C - +70°C	40MB/s	30MB/s	SLC	Removable	Yes	VCF1-16G-50CM-AA
VCF200	2GB	0°C - +70°C	80MB/s	75MB/s	SLC	Not support	Yes	VCF2-02G-20IS-AA
VCF200	4GB	0°C - +70°C	80MB/s	75MB/s	SLC	Not support	Yes	VCF2-04G-20IS-AA
VCF200	8GB	0°C - +70°C	80MB/s	75MB/s	SLC	Not support	Yes	VCF2-08G-20IS-AA
VCF200	16GB	0°C - +70°C	80MB/s	75MB/s	SLC	Not support	Yes	VCF2-16G-20IS-AA
VCF300	128MB	0°C - +70°C	25MB/s	20MB/s	SLC	Removable	Yes	VCF3-128-50CS-AA
VCF300	256MB	0°C - +70°C	25MB/s	20MB/s	SLC	Removable	Yes	VCF3-256-50CS-AA
VCF300	512MB	0°C - +70°C	25MB/s	20MB/s	SLC	Removable	Yes	VCF3-512-50CS-AA
VCF300	1GB	0°C - +70°C	45MB/s	40MB/s	SLC	Removable	Yes	VCF3-01G-50CS-AA
VCF300	2GB	0°C - +70°C	45MB/s	40MB/s	SLC	Removable	Yes	VCF3-02G-50CS-AA
VCF300	4GB	0°C - +70°C	45MB/s	40MB/s	SLC	Removable	Yes	VCF3-04G-50CS-AA
VCF300	8GB	0°C - +70°C	45MB/s	40MB/s	SLC	Removable	Yes	VCF3-08G-50CS-AA



Virtium Technology provides memory and solid state storage solutions for single board computers and high-reliability systems.

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