



TriCor Memory

Solutions that fit your needs
Without compromise



CF & CFast

Overview

TriCor's CompactFlash™ and CFast™ cards are fully compliant to the specification released by CompactFlash Association.

Features include static and dynamic wear leveling, error correction code (ECC), bad block management, TRIM, SMART, over-provision, and firmware upgrade. Technical datasheets are available with a full description of these features along with electrical & mechanical specifications, performance ratings, power consumption, pin definitions, timing diagrams, etc.

The TriCor CF and CFast cards are some of the most popular flash storage elements in the memory card market. By offering excellent performance and wide compatibility, TriCor's CF and CFast cards also provide a wide range of capacities available for users. In addition, industrial-grade cards are available for any applications requiring rigorous environmental conditions including extensive temperature, shock, and vibration.

CF Cards

Controller		PS3016-P9	SM2236
Status		MP	MP
Interface		PCMCIA/IDE	PCMCIA/IDE
Max Channels		4-Ch	4-Ch
ECC		68bit/1K	72bit/1K
Operating Temp		Diamond Industrial Grade (-40~85°C) Silver Industrial Grade(0~70°C) Commercial Grade (0~70°C)	Diamond Industrial Grade (-40~85°C) Commercial Grade (0~70°C)
Supported Flash	24nm SLC	128MB – 64GB	X
	15nm pSLC	2 – 64GB	X
	15nm MLC	4 – 128GB	4 – 64GB
Maximum Performance (Read/Write)		90/80 MB/s	137/51 MB/s

CFast Cards

Controller		PS3109-S9
Status		MP
Interface		SATA III
Max Channels		4-Ch
ECC		72bit/1K
Operating Temp		Diamond Industrial Grade (-40~85°C) Silver Industrial Grade (0~70°C) Commercial Grade (0~70°C)
Supported Flash	24nm SLC	1GB – 64GB
	15nm pSLC	2 – 64GB
	15nm MLC	4 – 128GB
Maximum Performance (Read/Write)		525/195 MB/s

Embedded SATA CFast Solution

	S11 CFast with Enhanced ECC	S9 CFast
Key Feature	<ul style="list-style-type: none"> • Competitive and excellent performance • Cost-effective solution 	<ul style="list-style-type: none"> • Economic embedded solution • Lower power consumption
L x W x H	42.8 x 36.4 x 3.3 mm	42.8 x 36.4 x 3.3 mm
Capacity	3D TLC: 64 to 256GB (512GB2) 2D MLC: 32 to 128GB pSLC: 16 to 64GB SLC: 8 to 32GB	2D MLC: 4 to 256GB pSLC: 2 to 128GB SLC: 1 to 64GB
Performance	Max 550/490 MB/s	Max 500/180 MB/s
Thermal Sensor	✓	✓
Application	High-End Camera, Gaming, Automation, POS, Medical, Network	
Power Consumption	Low Power < 1.7W Active Mode	
OP Temp	Industrial Diamond grade: -40 ~ 85°C Industrial Gold grade: -25 ~ 85°C Industrial new Silver grade: -15 ~ 85°C	Industrial Diamond Grade: -40 ~ 80°C Silver / Commercial Grade: 0 ~ 70°C