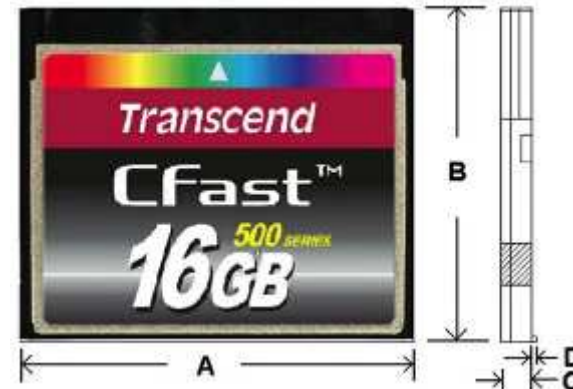


# CF/CFast Comparison



	PATA	SATA
Data Connector	50-pin	7-pin
Power Connector		17-pin
Data Burst Rate	Up to 66MB/s	Up to 150 MB/s (SATA I) Up to 300 MB/s (SATA II)
Hot-swap Function	No	Yes
Intelligent power management	No	Yes

# CFast Card Spec & Feature



- Dimensions: 42.8 x 36.4 x 3.9mm (A x B x C+D)
- Compliant with **CFast 1.0** specifications
- Non-volatile **SLC Flash** Memory for outstanding data retention
- Built-in 8-bit/512Byte **ECC**
- Global **wear-leveling algorithm** extends product lifespan
- Supports **Static Data Refresh** & **Early Retirement** technologies
- Supports **S.M.A.R.T.** (Self-defined)
- **Shock Resistance, Anti-Vibration** and **Intelligent power management**
- **RoHS** compliant

# CFast - SATA Interface CF Card



TS P/N: TS4G/8G/16GCFX500

- **SATA interface:**

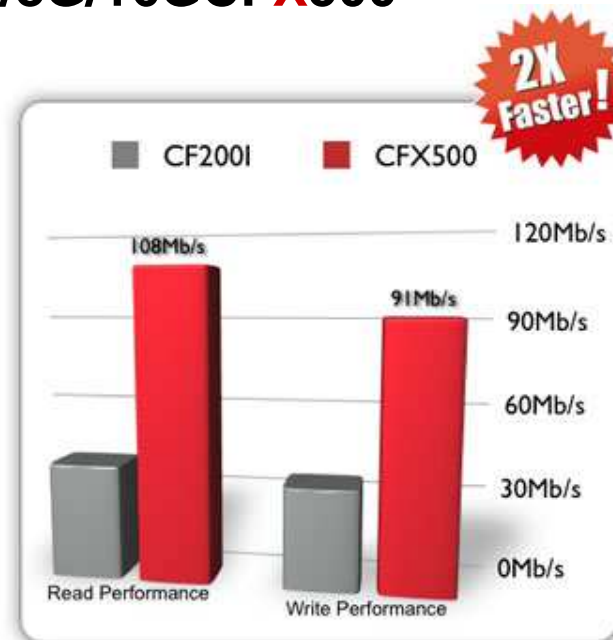
SATA interface into the existing CF card form factor, fully compatible with devices and OS that support the SATA 3Gb/s standard.

- **Faster Transfer Rates:**

CFast Cards deliver incredible read speeds up to 108MB/s – **2X** faster than CF45I/100I/200I

- **Data Protection Features:**

Supports **ECC, Static Data Refresh, Early Retirement, S.M.A.R.T.**, etc.



# Industrial Grade CFast Card



**TS P/N: TS4GCFX500I**

- Included all of CFast 500 features
- **Wide Range Operating Temperature**  
High quality components provide industrial grade working temperature(-40°C ~ 85°C)



**Industrial Grade  
Controller & NAND Flash**



**Industrial Grade  
Working Temperature**

# CFast Card Application

- Transportation Systems
- Outdoor Vending Machines
- Embedded Automation Computers
- Gaming Platform Solutions
- Medical Computing
- Engineering Machines
- POS
- Set-Top Box
- Military System





# Industrial CF Cards Product Line



Item	CF45I	CF100I	CF200I	CFX500	CFX500I
Capacity	128M~8G	128M~16G	128M~32G	<b>4G~16G</b>	<b>4G</b>
NAND Flash	SLC	SLC	SLC	<b>SLC</b>	<b>SLC</b>
Flash Life Guard *	N/A	N/A	Yes	<b>Yes</b>	<b>Yes</b>
Static Data Refresh & Early retirement **	N/A	N/A	Yes	<b>Yes</b>	<b>Yes</b>
Speed	Up to 12MB/s	Up to 40MB/s	Up to 50MB/s	<b>Up to 108MB/s ***</b>	<b>Up to 108MB/s ***</b>
Transfer Mode(default)	PIO 4	UDMA 4	UDMA 4	<b>SATA II</b>	<b>SATA II</b>
Working Temperature	-40°C ~ 85°	-40°C ~ 85°C	-40°C ~ 85°C	<b>0°C ~ 70°C</b>	<b>-40°C ~ 85°C</b>

\* Flash Life Guard software can monitor bad block numbers in flash.

\*\* Static Data Refresh & Early Retirement technology can monitor error bit level and react before data is corrupted.

\*\*\* Note: Actual transfer speed may vary due to host hardware, software and usage.

# CFX500 Suggest Solution

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P/N	Controller	Flash	PCB
TS4GCFX500	SM2242AC	SEC (42nm), 22-3620	29-3520
TS8GCFX500		SEC (42nm), 22-4640	
TS16GCFX500		SEC (51nm), 22-5641	
Industrial Grade Solution			
TS4GCFX500I	SM2242AC Industrial	SEC (42nm), 22-3720	29-3520