

CFast Card

ICFS31C



The ADATA ICFS31C industrial-grade CFast cards utilize 112-layer 3D TLC (BiCS5) NAND flash for higher capacities, and 3K P/E cycle rating for long-lasting durability while a DRAM Buffer offers improved IOPS and read/write speeds. What's more, with LDPC ECC error correction and RAID Engine, the ICFS31C ensures data accuracy and integrity. Customers can also benefit from S.M.A.R.T. technologies for easy management and real-time monitoring of ADATA cards. The ICFS31C is ideally suited for applications such as automation, IPC, retail (POS, Kiosks), networking, surveillance and healthcare.

Features

- Compliant with CFast 2.0 specifications
- 112-layer 3D TLC (BiCS5) NAND flash for higher capacities and endurance- Wear Leveling
- 3K P/E Cycles – improved endurance and reliability
- Comes in capacities up to 1TB
- DRAM Buffer
- Wide temperature support: -40°C to 85°C
- LDPC ECC error correction, RAID Engine, and Wear Leveling
- Thermal Throttling automatically adjusts temperatures for prolonged product lifespan
- Suitable for automation, IPC, retail (POS, Kiosks), networking, surveillance and healthcare

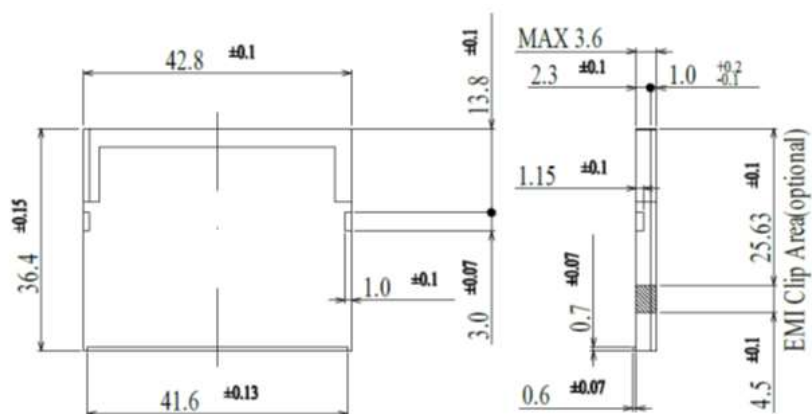
Ordering Information

Operating Temp.	128GB	256GB	512GB	1TB
0°C to 70°C	ICFS31C-128GCTB5	ICFS31C-256GCTB5	ICFS31C-512GCTB5	ICFS31C-001TCTB5
-40°C to 85°C	ICFS31C-128GITB5	ICFS31C-256GITB5	ICFS31C-512GITB5	ICFS31C-001TITB5

Specifications

Model	ICFS31C
Form Factor	CFast 2.0
Capacity	128GB - 1TB
Interface	SATA III
Flash Type	112L 3D TLC
Dimensions (L x W x H)	36.4 x 42.8 x 3.3mm
Sequential Read (Max.)	560MB/s
Sequential Write (Max.)	500MB/s
Operating Temperature	0°C to 70°C
Operating Temperature (Industrial)	-40°C to 85°C
Operating Voltage	3.3V
Power Consumption (Max)	2.1W
Shock Resistance	1500G/0.5ms, Half Sine Wave
Operating Humidity	5%-95% RH, non-condensing
Vibration Resistance	20G (20-2000Hz)
Technologies	A+ SLC, LDPC ECC, RAID Engine, Wear Leveling, SLC Cache, DRAM Buffer, TRIM and TRIM command, Garbage collection, Thermal Throttling, S.M.A.R.T. Monitor

Diagram



Unit: mm

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