swissbit®

Product Fact Sheet

Industrial
CFast™ Card

F-600 Series
SATA III – 6.0Gbit/s
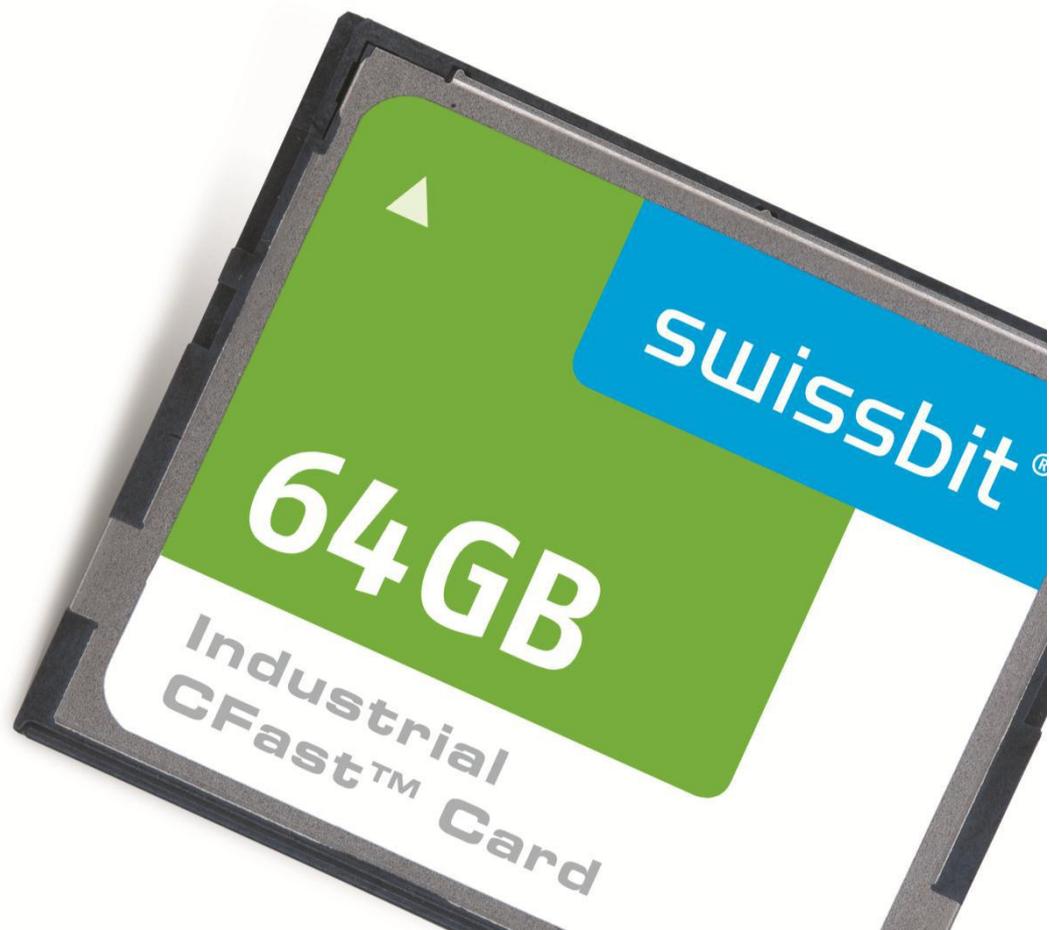
F-600 Series – Industrial CFast™ Card

Product Summary

- Capacities: 8GB, 16GB, 32GB, 64GB
- Form Factor: CFast™ 2.0 (36.4mm x 42.8mm x 3.6mm)
- Compliance: SATA Revision 3.1 (6Gb/s, backward compatible to 3 Gb/s and 1.5 Gb/s)
- Command Sets: Supports ATA/ATAPI-8 and ACS-2
- Performance:
    - Sequential Read / Write: up to 520MB/s / 260MB/s
    - Random (4KB) Read / Write: up to 75,000 IOPS / 54,000 IOPS
- Operating Temperature Range:
    - Commercial: 0°C to +70°C
    - Industrial: -40°C to +85°C
- Storage Temperature Range: -50°C to +100°C
- Operating Voltage: 3.3V +/- 5%
- Power: 1.1/1.65W R/W (active), 320mW (idle) @ max capacity
- DEVSLP Compatible < 185mW
- Data Retention: 10 years @ life begin / 1 year @ life end
- Endurance: Client/Embedded/Enterprise > 3805/1180/591 TBW @ max capacity
- Shock / Vibration: 2,000G / 20G (MIL-STD810)
- MTBF: ≥ 2,000,000 hours

Product Features

- Global Wear Leveling
- Data Care Management
    - Active: Adaptive Read Refresh
    - Passive: Background Media Scan
- Lifetime Enhancements
    - Dynamic Bad Block Remapping
    - Write Amplification Reduction
- On-board Power Fail Protection
- Supports AHCI, TRIM and NCQ
- ATA Security Feature Set
- In-Field Firmware update
- Enterprise Grade Self-Monitoring Analysis and Reporting Technology (S.M.A.R.T.)
- Write Protect Switch (on request)
- AES256 encryption (on request)
- SBLTM tool & SDK for S.M.A.R.T. based Life Time Monitoring (on request)

Why Swissbit?

Swissbit is focused on the design, development, manufacture and support of leading edge memory and storage solutions for the worldwide OEM/ODM marketplace. As a global supplier, Swissbit recognizes and addressees the higher level of application requirements of today's Industrial, Netcom and Automotive customers by providing Best-In-Class products and services, with uncompromised attention to driving overall value and quality.

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