

# swissbit®

Product Fact Sheet

## Industrial CompactFlash™ Card

### C-350 Series

up to UDMA4 / MDMA4 / PIO6, SLC

Commercial and Industrial  
Temperature Grade

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Revision: 1.00



# Product Fact Sheet

## C-350 Series



### Product Summary

- **Capacities:** 32 MBytes, 64 MBytes, 128 MBytes, 256 MBytes
- **Form Factor:** CompactFlash Card Type I (36.4 mm x 42.8 mm x 3.3 mm)
- **Compliance:** CompactFlash™ specification 3.0 (4.1 compatible)
- **Command Sets:** CFA feature set, HPA, Power Management, S.M.A.R.T.
- **High Performance:**
  - Read Performance: Sequential Read up to 19.8 MBytes/s, Random Read IOPS up to 2,900
  - Write Performance: Sequential Write up to 11.4 MBytes/s, Random Write IOPS up to 20
- **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 ± 10% / 5V ± 10%
- **Power (Max Capacity):**
  - Read (Active): 110mA, Write (Active): 115mA, Idle: 2mA
- **Data Retention:** 10 Years @ Life Begin; 1 Year @ Life End
- **Endurance in TeraBytes Written (TBW):**
  - Sequential WL: up to 25 TBW
  - Enterprise WL: up to 0.76 TBW
- **Shock/Vibration:** 1,500 g / 20 g
- **High-Performance 32-Bit Processor with Integrated, Parallel Flash Interface Engines:**
  - Single-Level Cell (SLC) NAND Flash
  - Hardware RS-Code ECC (4 Bytes/528 Bytes correction)
- **High Reliability:**
  - Mean Time Between Failure (MTBF): > 3,000,000 hours @ 25°C
  - Data Reliability: < 1 non-recoverable error per 10<sup>14</sup> bits read

### Product Features

- SLC NAND Flash with long-term availability
- Highly-integrated memory controller
  - Up to UDMA4 / MDMA4 / PIO6 mode supported
  - PC Card ATA Interface supported
  - True IDE mode compatible
  - Fix drive (IDE mode) & removable drive (PCMCIA mode) as default in the same card
- Power saving mode (with automatic wake-up)
- S.M.A.R.T. support
- Wear Leveling: equal wear leveling of static and dynamic data
- Hot swappable in PCMCIA modes
- Controlled "Locked" BOM and Life Cycle Management
- Swissbit Life Time Monitoring (SBLTM) Tool and SDK for SBLTM (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 addresses 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.