# swissbit®

Product Fact Sheet

Industrial CompactFlash™ Card

C-350 Series up to UDMA4 / MDMA4 / PI06, SLC

Commercial and Industrial Temperature Grade

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Made in Germany

## 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<sup>™</sup> 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
  - $\circ$  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:
  - o 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 / PI06 mode supported
  - PC Card ATA Interface supported
  - o 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 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.