swissbit®

Product fact sheet

Industrial CompactFlash™ Card

C-300 Series
up to UDMA4 / MDMA4 / PIO6

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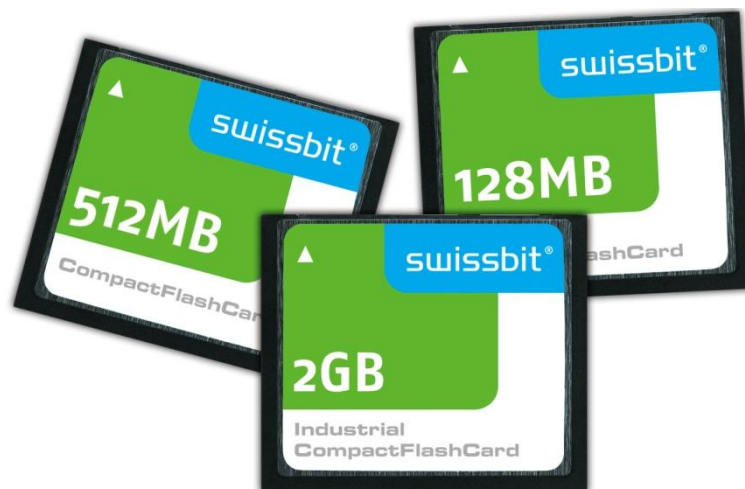
C-300 Series – UDMA CompactFlash™ Card, 64MByte up to 4GByte, 3.3/5V Supply

Main Features

- Highly-integrated memory controller
  - Fully compliant with CompactFlash™ specification 3.0, compatible with specification 4.1
  - Fully compatible with PCMCIA specification
  - PC Card ATA Interface supported
  - True IDE mode compatible
  - Up to PIO mode 6 supported
  - Up to MDMA4 supported
  - Up to UDMA4 supported
  - Hardware RS-code ECC (4 Bytes/528 Bytes correction)
  - Fix drive (IDE mode) & removable drive (PCMCIA mode) as default in the same card
- Small form factor
  - CFC Type I: 36.4mm x 42.8mm x 3.3mm
- Low-power CMOS technology
- 3.3V or 5.0V power supply
- Power saving mode (with automatic wake-up)
- S.M.A.R.T. support by *-SMA product type
- Wear Leveling: equal wear leveling of static and dynamic data
  The wear leveling assures that dynamic data as well as static data is balanced evenly across the memory. With that the maximum write endurance of the device is guaranteed.
- Data Retention: 10 year (JESD47)
- Patented power-off reliability
  - No data loss of older sectors
  - Max. 16 sectors data loss (old data kept) for 2k Page flash respectively
  - All data written to the flash if card status is ready after write command
- High reliability
  - Best available SLC NAND Flash technology
  - Designed for embedded market
  - MTBF: > 3,000,000 hours
  - Data reliability: < 1 non-recoverable error per 10^{14} bits read
  - Number of insertions: > 10,000
- Hot swappable in PCMCIA modes
- High random performance
  - Up to 66MB/s burst transfer rate in UDMA4
  - Optimized for random access >150kB/s
  - Sustained Read/Write performance: up to 37/20MB/s (UDMA4)
- Available densities
  - up to 4GBytes (SLC NAND Flash)
- Operating System support
  - Standard Software Drivers operation CompactFlash™
- 2 Temperature ranges
  - Commercial Temperature range   0 … +70°C
  - Industrial Temperature range   -40 … +85°C
- Controlled BOM

on request

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