HERCULES-N Series

SLC Industrial CompactFlash (CF) Card
Rugged Metal Frame

**Product features**
- SLC - NAND type flash technology
- Compatible with CompactFlash® specification 6.0
- CompactFlash® Type I form-factor
- Supports PC Card Memory mode or True IDE mode
- Performance up to: Sequential read - 116 MB/sec (dual CH. Max.), Sequential write - 96 MB/sec (dual CH. Max.), Random access time - 0.3ms (estimated)
- Capacities from 2GB up to 64GB

**Product specifications**

**Compatibility**
- CompactFlash® specification 6.0
- CompactFlash® Type I

**Form-factor**
- CompactFlash® Type I

**Flash technology**
- SLC-NAND type flash board

**Data transfer rate**
- PIO 0-6, MWDMA 0-4, UDMA 0-7

**Sequential read**
- 116 MB/sec (dual CH. Max.)

**Sequential write**
- 96 MB/sec (dual CH. Max.)

**Random access time**
- 0.3ms (estimated)

**Environmental specification**
- Operating temp: STD. 0˚C~70˚C/IND. -40˚C~+85˚C
- Temperature: ETD. 0-6, WDMAM 0-4, VDMAM 0-7
- Relative humidity: 10% ~ 95% non-condensing
- Vibration: 15G compliance to MIL-STD-810F
- Shock: 1,500g compliance to MIL-STD-810F
- Altitude: 70,000 feet

**Power consumption**
- Power requirement: +5V 10% / +3.3V 5%
- Reading mode: 210 mA (Max.)
- Writing mode: 210 mA (Max.)
- Idle mode: 6.4 mA (Max.)

**Physical specification**
- Weight (max.): Plastic card: 12.0 g / 0.42 oz., Metal card: 15.0 g / 0.53 oz.
- Dimension (W x L x H): 32.8 x 26.4 x 3.3 (mm)

**Conformal coating**
- Option for special request

**Warranty**
- Standard grade: 3 years
- Industrial grade: 5 years

**Part number list - SLC Industrial CF Card with standard plastic frame kit**

- 2GB: SPCFC002G-MNCTC-UF(C)
- 4GB: SPCFC004G-MNCTC-UF(C)
- 8GB: SPCFC008G-MNCTC-UF(C)
- 16GB: SPCFC016G-MNCTC-UF(C)
- 32GB: SPCFC032G-MNCTC-UF(C)
- 64GB: SPCFC064G-MNCTC-UF(C)

**Part number list - SLC Industrial CF Card with rugged metal frame kit**

- 2GB: SRCFC002G-MNCTC-UF(C)
- 4GB: SRCFC004G-MNCTC-UF(C)
- 8GB: SRCFC008G-MNCTC-UF(C)
- 16GB: SRCFC016G-MNCTC-UF(C)
- 32GB: SRCFC032G-MNCTC-UF(C)
- 64GB: SRCFC064G-MNCTC-UF(C)

**Performance**
- Supports PC Card Memory mode or True IDE mode
- Compatible with ATA/ATAPI-8 standard
- Compatible with CompactFlash® specification 6.0

**Environmental specification**
- Humidity: 10% ~ 95% non-condensing
- Vibration: 15G compliance to MIL-STD-810F
- Shock: 1,500G compliance to MIL-STD-810F
- Altitude: 70,000 feet

**Reliability**
- MTBF: > 3,000,000 hours
- Endurance: > 2,000,000 cycles
- Data retention: 10 Years
- Global wear-leveling algorithms
- Wear-leveling: 72 bits per 1024 bytes block
- ECC: 10 Years

**Data transfer rate and disk types**
- Data transfer rate: PIO 0-6, MWDMA 0-4, UDMA 0-7
- Disk types: Fixed disk type / Removable disk type

**Flash IC**
- SLC-NAND flash IC

**Controller version**
- Controller version: A,B,C.....