

# SQF-P10

## Industrial CompactFlash



## Specifications

|                               |                                                                               |
|-------------------------------|-------------------------------------------------------------------------------|
| Capacity                      | 256MB/1G/2G/4G/8G/16G/32G                                                     |
| Flash Type                    | Toshiba 43nm SLC                                                              |
| Compatibility                 | CF 3.0, PC Card, Socket's Services                                            |
| Form Factor                   | CF Type-I                                                                     |
| Voltage                       | 3.3 V / 5.0 V                                                                 |
| Data Transfer Mode            | PIO Mode-6<br>MWDMA Mode-2<br>UDMA Mode-5                                     |
| Sustained R/W Performance (*) | 4 channel: 83/87 MB/sec<br>2 channel: 43/40 MB/sec<br>1 channel: 22/15 MB/sec |
| Operation Temperature         | Commercial Grade: 0 to +70° C<br>Extended Grade: -40 to +85° C                |
| Host interface                | 8/16 bit access                                                               |
| ECC (BCH)                     | Correct up to 6/12 random bits/sector                                         |
| Endurance                     | > 5,000,000 program/erase cycles                                              |
| MTBF                          | > 6,000,000 hours                                                             |
| Shock resistance              | 1,500 G, Peak / 0.5 ms                                                        |
| Vibration resistance          | 20 G, Peak / 80 ~ 2000 Hz                                                     |

(\*)The values are for reference only; they may change according to the flash memory used.

## Ordering Information

| Part No.           | Product Description                     |
|--------------------|-----------------------------------------|
| SQF-P10S1-256M-CT2 | SQFlash 256MB CF, 1-CH, DMA (0 ~ 70° C) |
| SQF-P10S1-1G-CTE   | SQFlash 1G CF, 1-CH, DMA (0 ~ 70° C)    |
| SQF-P10S2-2G-CTE   | SQFlash 2G CF, 2-CH, DMA (0 ~ 70° C)    |
| SQF-P10S2-4G-CTE   | SQFlash 4G CF, 2-CH, DMA (0 ~ 70° C)    |
| SQF-P10S2-8G-CTE   | SQFlash 8G CF, 2-CH, DMA (0 ~ 70° C)    |
| SQF-P10S2-16G-CTE  | SQFlash 16G CF, 2-CH, DMA (0 ~ 70° C)   |
| SQF-P10S4-32G-CT2  | SQFlash 32G CF, 4-CH, DMA (0 ~ 70° C)   |
| SQF-P10S1-1G-ETE   | SQFlash 1G CF, 1-CH, DMA (-40 ~ 85° C)  |
| SQF-P10S2-2G-ETE   | SQFlash 2G CF, 2-CH, DMA (-40 ~ 85° C)  |
| SQF-P10S2-4G-ETE   | SQFlash 4G CF, 2-CH, DMA (-40 ~ 85° C)  |
| SQF-P10S2-8G-ETE   | SQFlash 8G CF, 2-CH, DMA (-40 ~ 85° C)  |
| SQF-P10S2-16G-ETE  | SQFlash 16G CF, 2-CH, DMA (-40 ~ 85° C) |
| SQF-P10S4-32G-ET2  | SQFlash 32G CF, 4-CH, DMA (-40 ~ 85° C) |

## Features

- Compliant with CFA 3.0 specification
- Built-in EDC/ECC up to 12 random bit errors per 512 bytes
- Advanced wear-leveling and block management
- Shock resistance, anti-vibration and low power consumption
- GUI Management Tool & Software API Package

### GUI Management Tool & Software API Package

