

## TITANS Series Industrial 1.8" IDE Flash disk



### Product features

- ❖ SLC - NAND type flash technology
- ❖ 1.8" IDE drive form-factor
- ❖ Extremely rugged metal casing to endure harsh environments
- ❖ Master / Slave selectable
- ❖ Compatible with ATA/ATAPI-5 standard
- ❖ Data transfer mode support PIO-4 and UDMA-4
- ❖ Performance up to 25.9MB/sec
- ❖ Capacity from 32MB up to 8GB

### Product specifications

<b>Compatibility</b>	❖ ATAPI-5 and True IDE mode
<b>Flash technology</b>	❖ SLC-NAND type flash based
<b>Form-factor</b>	❖ Rugged Metal 1.8" IDE hard disk drive
<b>Host Interface</b>	❖ Standard 44-pin IDE male connector

<b>Performance</b>	
Data transfer mode	❖ PIO-4 mode or UDMA-4 mode (def.)
Data transfer rate	❖ 66.6MB/sec (ATA-5 / UDMA-4) ❖ 16.6MB/sec (ATA-3 / PIO-4)
Sequential read	❖ 25.9 MB/sec (Max. /with dual flash)
Sequential write	❖ 11.9 MB/sec (Max. /with dual flash)
Average access time	❖ 0.7ms (estimated)

<b>Environmental specification</b>	
Operating temp.	❖ STD. 0°C - 70°C / IND. -40°C - 85°C
Non-operating temp.	❖ STD. -20°C - 80°C / IND. -50°C - 95°C
Humidity	❖ 10% ~ 95% non-condensing
Vibration	❖ 15G compliance to MIL-STD-810F
Shock	❖ 1,500G compliance to MIL-STD-810F
Altitude	❖ 70,000 feet

<b>Power consumption</b>	
Power requirement	❖ +5V ± 10%
Reading mode	❖ 190.0 mA(Max.)
Writing mode	❖ 200.0 mA(Max.)
Sleeping mode	❖ 117.5 mA(Max.)

<b>Reliability</b>	
Wear-leveling	❖ Dynamic wear-leveling algorithms
MTBF	❖ > 1,000,000 hours
ECC	❖ 4-bits per 512bytes block
Endurance	❖ > 2,000,000 cycles

<b>Physical specification</b>	
Weight (max.)	❖ 59.4g / 2.10 oz.
Dimension(W x L x H)	❖ 69.85 x 60.00 x 9.50 (mm)

<b>Conformal coating</b>	❖ Option for special request
<b>Warranty</b>	
Standard grade	❖ 3 years
Industrial grade	❖ 5 years

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