

Embedded Solutions



PATA Flash Module

PTM820

44 Pin Horizontal

Transcend's 44-pin PATA PTM820 Flash Module can be inserted directly to the PATA (IDE) interface of a motherboard to replace conventional 2.5" hard disk drives. Ideal for use as bootable drives, the 44-pin PATA PTM820 Flash Module is an easy solution for integrating SSD storage technology into laptop-based legacy systems.

Features

- RoHS compliant
- Support Security command
- Support S.M.A.R.T (Self-defined)
- Fully compatible with devices and OS that support the IDE standard (pitch = 2.00mm)
- Built-in ECC function assures high reliability of data transfer
- Supports up to Ultra DMA Mode 0 to 5
- Supports PIO Mode 0 to 4
- SLC NAND Flash

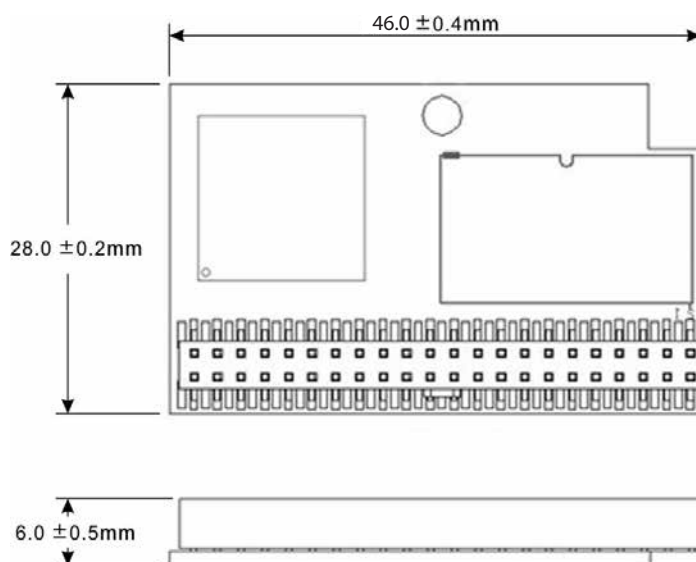
Ordering Information

| | |
|-------|--------------|
| 512MB | TS512MPTM820 |
| 1GB | TS1GPTM820 |

Specification

| | | |
|-----------------------|-------------------------------------------------------------------------------|---------------------------------------------------|
| Appearance | Dimensions (Max.) | 46.0 mm x 28.0 mm x 6.0 mm (1.81" x 1.1" x 0.24") |
| | Pin | 44 pin |
| Interface | Bus Interface | PATA |
| Storage | Flash Type | SLC NAND flash |
| | Capacity | 512 MB / 1 GB |
| Operating Environment | Operating Voltage | 3.3V±5% or 5V±10% |
| | Operating Temperature | 0°C (32°F) ~ 70°C (158°F) |
| | Storage Temperature | -40°C (-40°F) ~ 85°C (185°F) |
| | Humidity | 0% ~ 95% |
| | Shock | 1500 G, 0.5 ms, 3 axis |
| | Vibration (Operating) | 3 G (peak-to-peak), 5 Hz ~ 800 Hz (frequency) |
| Power | Power Consumption (Operation) | 0.45 watt(s) |
| Performance* | Read Speed (Max.) | 21 MB/s |
| | Write Speed (Max.) | 14 MB/s |
| | Mean Time Between Failures (MTBF) | 1,000,000 hour(s) |
| Warranty | Warranty | Three-year Limited Warranty |
| Note | * Speed may vary due to host hardware, software, usage, and storage capacity. | |

Mechanical Specification



Product specifications are subject to change without notice. Pictures shown may differ from actual products. When used as a storage capacity unit, one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment. Due to the complexity and variety of industrial applications, Transcend cannot guarantee 100% compatibility with all platforms and under all scenarios. For special applications and environments, it is strongly suggested that you contact Transcend beforehand for clarification.



Please feel free to contact us with any special requests you might have.

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