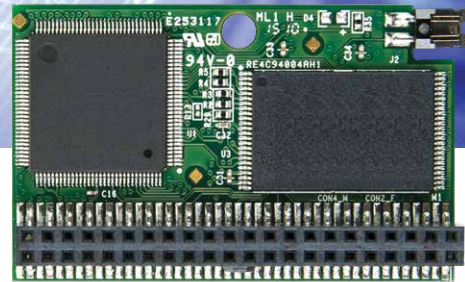## Embedded Solutions

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 4
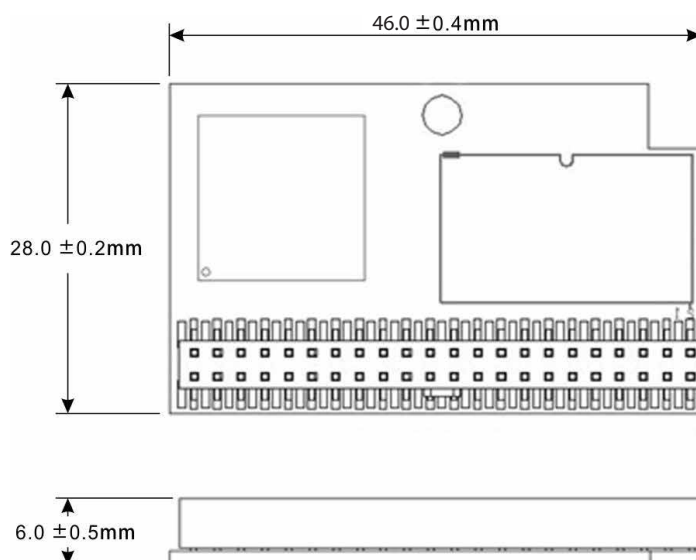- Supports PIO Mode 6
- SLC NAND Flash

Ordering Information

512MB	TS512MPTM820
1GB	TS1GPTM820
2GB	TS2GPTM820

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 / 2 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.)	22 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

Please feel free to contact us with any special requests you might have.
Tel: +886-2-2792-8000   www.transcend-info.com