

## Embedded Solutions



USB

# USB Flash Module (Vertical)

Transcend's USB Flash modules are convenient, easy to implement solutions for expanding the memory capacity of industrial computers. These compact storage devices consume a minimal amount of power and feature a mechanical write protection switch. Due to their minimalist dimensions, these USB modules are suitable for use in small embedded systems.

## Hardware Features

- Compliant with RoHS 2.0 standards
- Hot-swapping for easy plug-and-play
- Low power consumption

## Firmware Features

- Mechanical Write Protection switch for data security

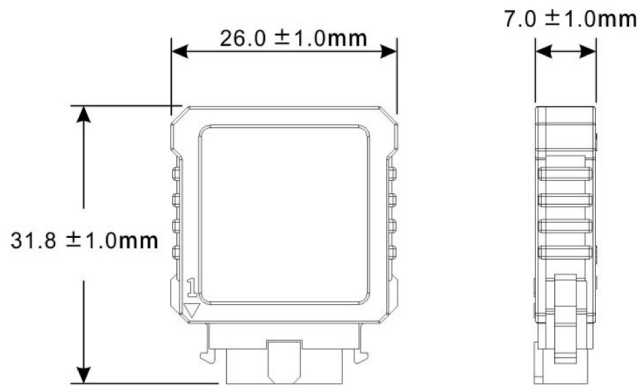
## Ordering Information

512MB	TS512MUFM-V
2GB	TS2GUFM-V

## Specifications

<b>Appearance</b>	Dimensions	31.80 mm x 26.00 mm x 7.00 mm (1.25" x 1.02" x 0.28")
	Pin Count	10 pin
	Pitch	2.54mm (normal type)
<b>Interface</b>	Connection Interface	USB 2.0
<b>Storage</b>	Flash Type	SLC NAND flash
	Capacity	512 MB / 2 GB
<b>Operating Environment</b>	Operating Voltage	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)	20 G (peak-to-peak), 7 Hz ~ 2,000 Hz (frequency)
<b>Power</b>	Power Consumption (Operation)	0.67 watt(s)
<b>Performance</b>	Read Speed (Max.)	up to 21 MB/s
	Write Speed (Max.)	up to 13 MB/s
	Terabytes Written (Max.)	62.5 TBW
	Mean Time Between Failures (MTBF)	1,000,000 hour(s)
<b>Warranty</b>	Warranty	Three-year Limited Warranty

## Mechanical Dimensions



Product specifications are subject to change without notice. Pictures shown may differ from actual products. 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.