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Transcend's MTS800 with SATA III 6Gb/s interface and ultra compact dimensions make it best suited to address the high-performance needs and strict size limitations of small form factor devices. This means it is perfect for use in today's modern ultrabooks, thin and light notebooks, and tablets. Built with the latest SATA III 6Gb/s specifications, and with a powerful controller and exceptional transfer speeds, the M.2 SSD easily handles everyday computing tasks as well as demanding multimedia applications.

Transcend also offers the MTS800I with wide temperature (-40°C ~ 85°C) capabilities to ensure sustained functionality, enhanced endurance and optimal reliability in mission-critical applications.

## Features

- Space-saving M.2 form factor (80mm) ideal for mobile computing devices
- Wide-temperature model available: promised operational reliability in a wide temperature range (from -40°C ~ 85°C)
- DRAM cache
- Supports S.M.A.R.T., TRIM and NCQ command
- Compliant with RoHS 2.0 standards
- Power-saving DevSleep (Device Sleep) mode
- MLC NAND Flash

## **Ordering Information**

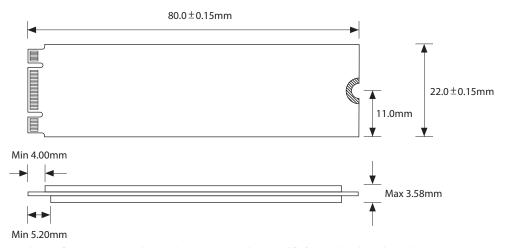
Standard (0°C~ 70°C)			
16GB	TS16GMTS800		
32GB	TS32GMTS800		
64GB	TS64GMTS800		
128GB	TS128GMTS800		
256GB	TS256GMTS800		
512GB	TS512GMTS800		
	TS1TGMTS800		
1TB	TS1TGMTS800		
	TS1TGMTS800 p. (-40°C~ 85°C)		
Wide Tem	р. (-40°С~ 85°С)		
Wide Tem	np. (-40°C~ 85°C) TS16GMTS800I		
Wide Tem 16GB 32GB	np. (-40°C~ 85°C) TS16GMTS800I TS32GMTS800I		
Wide Tem 16GB 32GB 64GB	Ip. (-40°C~ 85°C) TS16GMTS800I TS32GMTS800I TS64GMTS800I		
Wide Tem 16GB 32GB 64GB 128GB	Ip. (-40°C~ 85°C) TS16GMTS800I TS32GMTS800I TS64GMTS800I TS128GMTS800I		



## Specifications

Pinensions         800 mm x 220 mm x 3.58 mm (3.15" x 0.87" x 0.14")           Weight         9 (0.32 oz)           Form Factor         M.2           Interface         Bus Interface         280-D2-B-M           Bus Interface         SATA III (66/s)           Torget         Flash Type         MC NAND flash           Gaacity         16 GB/32 GB/64 GB/128 GB/256 GB/512 GB/178         SATA III (67)           Prenting Voltage         6 GB/32 GB/64 GB/128 GB/256 GB/512 GB/178         SATA III (67)           Prenting Tomperature         6 GB/32 GB/64 GB/128 GB/256 GB/512 GB/178         SATA III (67)           Prenting Tomperature         6 GB/32 GB/64 GB/128 GB/256 GB/512 GB/178         SATA III (67)           Mundity         Operating Tomperature         Standard: 0°C (32°F) ~ 70°C (158°F)         SATA III (67)           Mundity         Operating Tomperature         6 GB/02 GB/04 GB/128 GB/254 GB/				
Appearance         Form Factor         M.2           Interface         M.2 Type         280-02-8-M           Interface         Bus Interface         SATA III 6Gb/s           Storage         Flash Type         MLC NAND flash           Operating Voltage         3.34 ±50           Operating Voltage         3.34 ±50           Operating Temperature         40°C (40°F) ~ 85°C (185°F)           Wide Temp: -40°C (40°F) ~ 85°C (185°F)         Wide Temp: -40°C (40°F) ~ 85°C (185°F)           Mundity         0% ~ 95%           Storage Temperature         40°C (40°F) ~ 85°C (185°F)           Mundity         0% ~ 95%           Mundity         0% ~ 95%           Power Consumption (Operation)         2.64 watt(s)           Operating Read/Write (CrystalDiskMark, max)         Read: 530 MB/s; write: 460 MB/s           Mean Time Between Failures (MTBF)         2.900,000 hour(s)           Waranty         Leadytes Writen (Max,)         2.630 rgs           Orive Writes Per Day (DWPD)         2.630 rgs         2.600 rgs           Maranty         Certificate         CE/FCC/BSMI	Appearance	Dimensions	80.0 mm x 22.0 mm x 3.58 mm (3.15" x 0.87" x 0.14")	
Interface         M.2           M.2 Type         2280-D2-B-M           Interface         SATA III 6Gb/s           Bus Interface         SATA III 6Gb/s           Capacity         Gapacity           Goperating Voltage         33½5%           Operating Temperature         Standard: 0°C (32°F) ~ 70°C (158°F)           Mide Temp: -40°C (-40°F) ~ 85°C (185°F)         Wide Temp: -40°C (-40°F) ~ 85°C (185°F)           Mide Temp: -40°C (-40°F) ~ 85°C (185°F)         Wide Temp: -40°C (-40°F) ~ 85°C (185°F)           Mide Temp: -40°C (-40°F) ~ 85°C (185°F)         Wide Temp: -40°C (-40°F) ~ 85°C (185°F)           Mide Temp: -40°C (-40°F) ~ 85°C (185°F)         Wide Temp: -40°C (-40°F) ~ 85°C (185°F)           Mide Temp: -40°C (-40°F) ~ 85°C (185°F)         Wide Temp: -40°C (-40°F) ~ 85°C (185°F)           Mide Temp: -40°C (-40°F) ~ 85°C (185°F)         Wide Temp: -40°C (-40°F) ~ 85°C (185°F)           Mide Temp: -40°C (-40°F) ~ 85°C (185°F)         Wide Temp: -40°C (-40°F) ~ 85°C (185°F)           Mide Temp: -40°C (-40°F) ~ 85°C (185°F)         Wide Temp: -40°C (-40°F) ~ 85°C (185°F)           Mide Temp: -40°C (-40°F) ~ 85°C (185°F)         Wide Temp: -40°C (-40°F) ~ 85°C (185°F)           Mide Temp: -40°C (-40°F) ~ 85°C (185°F)         Wide Temp: -40°C (-40°F) ~ 85°C (185°F)           Mide Temp: -40°C (-40°F) ~ 85°C (185°F)         Wide Temp: -40°C (-40°F) ~ 85°C (185°F) <td< td=""><td>Weight</td><td>9 g (0.32 oz)</td></td<>		Weight	9 g (0.32 oz)	
Interface         Bus Interface         SATA III 6 Gb/s           Storage         Flash Type         MLC NAND flash           Capacity         16 GB/32 GB/64 GB/128 GB/256 GB/512 GB/1TB           Capacity         16 GB/32 GB/64 GB/128 GB/256 GB/512 GB/1TB           Operating Voltage         3.3V±5%           Capacity         5 dardart 0°C (32°F) ~ 70°C (158°F)           Operating Temperature         Standard: 0°C (40°F) ~ 85°C (185°F)           Operating Temperature         -40°C (-40°F) ~ 85°C (185°F)           Humidity         0% ~ 95%           Storage Temperature         -500 G (0.5 ms, 3 axis           Vibration         20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency)           Vibration         20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency)           Power Consumption (Operation)         2.64 watt(s)           Power Consumption (Sleep)         0.41 watt(s)           Mean Time Between Failures (MTBF)         2,5000 00 hour(s)           Mean Time Between Failures (MTBF)         2,5000 nour(s)           Drive Writes Per Day (DWPD)         2.6 (3 yrs)           Warranty         Three-year Limited Warranty           Warranty         Three-year Limited Warranty		Form Factor	M.2	
Storage       Flash Type       MLC NAND flash         Gapacity       16 GB/32 GB/64 GB/128 GB/256 GB/512 GB/1TB         Goperating Voltage       3.3 ¥±5%         Operating Temperature       Standard: 0°C (32°F) ~ 70°C (158°F)         Wide Temp: -40°C (-40°F) ~ 85°C (185°F)       Wide Temp: -40°C (-40°F) ~ 85°C (185°F)         Storage Temperature       -40°C (-40°F) ~ 85°C (185°F)         Humidity       0% ~ 95%         Shock       1500 G, 0.5 ms, 3 axis         Vibration       20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency)         Vibration       20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency)         Power Consumption (Operation)       2.64 watt(s)         Power Consumption (Sleep)       0.41 watt(s)         Mean Time Between Failures (MTBF)       25000 IOPS; write: 460 MB/s         Mean Time Between Failures (MTBF)       2,500,000 hour(s)         Performance       Terabytes Written (Max.)       2,63 (3 yrs)         Marranty       Thee-year Limited Warranty		М.2 Туре	2280-D2-B-M	
Storage       Capacity       16 GB/32 GB/64 GB/128 GB/256 GB/512 GB/1 TB         Capacity       0perating Voltage       3.3V±5%         Operating Voltage       3.3V±5%         Operating Temperature       Standard: 0°C (32°F) ~ 70°C (158°F)         Wide Temp:: -40°C (-40°F) ~ 85°C (185°F)       Wide Temp:: -40°C (-40°F) ~ 85°C (185°F)         Imministry       0% ~ 95%         Storage Temperature       -40°C (-40°F) ~ 85°C (185°F)         Humidity       0% ~ 95%         Shock       1500 G, 0.5 ms, 3 axis         Vibration       20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency)         Vibration       2.64 watt(s)         Power Consumption (Operation)       2.64 watt(s)         Power Consumption (Sleep)       0.41 watt(s)         Mean Time Between Failures (MTBF)       2,500,000 hour(s)         Mean Time Between Failures (MTBF)       2,500,000 hour(s)         Performance       Terabytes Written (Max.)       2.66 (3 yrs)         Marranty       Certificate       CE/FCC/BSMI         Warranty       Warranty       Thre-year Limited Warranty	Interface	Bus Interface	SATA III 6Gb/s	
Capacity       16 GB/32 GB/64 GB/128 GB/256 GB/112 GB/11 TB         Image: Capacity       0perating Voltage       3.3V±5%         Poperating Temperature       Standard: 0°C (32°F) ~ 70°C (158°F)         Wide Temp: -40°C (-40°F) ~ 85°C (185°F)       Wide Temp: -40°C (-40°F) ~ 85°C (185°F)         Image: Voltage       -40°C (-40°F) ~ 85°C (185°F)         Image: Voltage: Voltage       -40°C (-40°F) ~ 85°C (185°F)         Image: Voltage: Vo	Storage	Flash Type	MLC NAND flash	
Performance         Standard: 0°C (32°F) ~ 70°C (158°F) Wide Temp:: 40°C (-40°F) ~ 85°C (185°F)           Storage Temperature         -40°C (-40°F) ~ 85°C (185°F)           Humidity         0% ~ 95%           Shock         1500 G, 0.5 ms, 3 axis           Vibration         20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency)           Power Consumption (Operation)         2.64 watt(s)           Power Consumption (Sleep)         0.41 watt(s)           Mean Time Between Failures (MTBF)         2,500,000 hour(s)           Mean Time Between Failures (MTBF)         2,500,000 hour(s)           Performance         Terabytes Written (Max.)         2,360 TBW           Warranty         Certificate         CE/FCZ/BSMI           Warranty         Warranty         Three-year Limited Warranty		Capacity	16 GB/32 GB/64 GB/128 GB/256 GB/512 GB/1 TB	
Operating Temperature         Wide Temp:: -40°C (-40°F) ~ 85°C (185°F)           Storage Temperature         -40°C (-40°F) ~ 85°C (185°F)           Humidity         0% ~ 95%           Shock         1500 G, 0.5 ms, 3 axis           Vibration         20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency)           Power Consumption (Operation)         2.64 watt(s)           Power Consumption (Sleep)         0.41 watt(s)           Power Consumption (Sleep)         0.41 watt(s)           4K Random Read/Write (CrystalDiskMark, max.)         Read: 350 MB/s; write: 460 MB/s           4K Random Read/Write (IOmeter, max.)         Read: 75,000 IOPS; write: 75,000 IOPS           Performance         Intrabytes Written (Max.)         2,60 TBW           Drive Writes Per Day (DWPD)         2,63 yrs)         2,63 yrs)           Warranty         Warranty         Warranty	Operating Environment	Operating Voltage	3.3V±5%	
Poperating Environment         Storage Temperature         -40°C (-40°F) ~ 85°C (185°F)           Humidity         0% ~ 95%           Humidity         0% ~ 95%           Shock         1500 G, 0.5 ms, 3 axis           Vibration         20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency)           Power         Power Consumption (Operation)         2.64 watt(s)           Power Consumption (Sleep)         0.41 watt(s)           Power Consumption (Sleep)         0.41 watt(s)           At Random Read/Write (CrystalDiskMark, max.)         Read: 530 MB/s; write: 460 MB/s           Mean Time Between Failures (MTBF)         2,500,000 hour(s)           Performance         Terabytes Written (Max.)         2.63 yrs)           Marranty         Certificate         CE/FCC/BSMI           Warranty         Speed may vary due to host hardware, software, usage, and storage capacity.		Operating Temperature	Standard: 0°C (32°F) ~ 70°C (158°F)	
Operating Environment         Humidity         0% ~ 95%           Shock         1500 G, 0.5 ms, 3 axis           Vibration         20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency)           Power         Power Consumption (Operation)         2.64 watt(s)           Power Consumption (Sleep)         0.41 watt(s)           Power Consumption (Sleep)         0.41 watt(s)           Sequential Read/Write (CrystalDiskMark, max.)         Read: 530 MB/s; write: 460 MB/s           4K Random Read/Write (IOmeter, max.)         Read: 75,000 IOPS; write: 75,000 IOPS           Mean Time Between Failures (MTBF)         2,500,000 hour(s)           Terabytes Written (Max.)         2.63 yrs)           Drive Writes Per Day (DWPD)         2.6 (3 yrs)           Warranty         Varranty           Warranty         Three-year Limited Warranty			Wide Temp.: -40°C (-40°F) ~ 85°C (185°F)	
Humidity       0% ~ 95%         Shock       1500 G, 0.5 ms, 3 axis         Vibration       20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency)         Power Consumption (Operation)       2.64 watt(s)         Power Consumption (Sleep)       0.41 watt(s)         Power Consumption (Sleep)       0.41 watt(s)         AK Random Read/Write (CrystalDiskMark, max.)       Read: 530 MB/s; write: 460 MB/s         Performance       4K Random Read/Write (IOmeter, max.)       Read: 75,000 IOPS; write: 75,000 IOPS         Mean Time Between Failures (MTBF)       2,500,000 hour(s)       100 Nour(s)         Drive Writes Per Day (DWPD)       2.6 (3 yrs)       2.6 (3 yrs)         Warranty       Warranty       Three-year Limited Warranty         Varranty       Narranty software, usarge capacity.		Storage Temperature	-40°C (-40°F) ~ 85°C (185°F)	
Vibration       20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency)         Power Consumption (Operation)       2.64 watt(s)         Power Consumption (Sleep)       0.41 watt(s)         Power Consumption (Sleep)       0.41 watt(s)         Sequential Read/Write (CrystalDiskMark, max.)       Read: 530 MB/s; write: 460 MB/s         4K Random Read/Write (IOmeter, max.)       Read: 75,000 IOPS; write: 75,000 IOPS         Mean Time Between Failures (MTBF)       2,500,000 hour(s)         Terabytes Written (Max.)       2,360 TBW         Drive Writes Per Day (DWPD)       2.6 (3 yrs)         Certificate       CE/FCC/BSMI         Warranty       Naranty         • Speed may vary due to host hardware, software, usage capacity.		Humidity	0% ~ 95%	
Power         Power Consumption (Operation)         2.64 watt(s)           Power Consumption (Sleep)         0.41 watt(s)           Sequential Read/Write (CrystalDiskMark, max.)         Read: 530 MB/s; write: 460 MB/s           4K Random Read/Write (IOmeter, max.)         Read: 75,000 IOPS; write: 75,000 IOPS           Mean Time Between Failures (MTBF)         2,500,000 hour(s)           Terabytes Written (Max.)         2,360 TBW           Drive Writes Per Day (DWPD)         2.6 (3 yrs)           Certificate         CE/FCC/BSMI           Warranty         Warranty		Shock	1500 G, 0.5 ms, 3 axis	
Power         Power Consumption (Sleep)         0.41 watt(s)           Power Consumption (Sleep)         0.41 watt(s)           Sequential Read/Write (CrystalDiskMark, max.)         Read: 530 MB/s; write: 460 MB/s           4K Random Read/Write (IOmeter, max.)         Read: 75,000 IOPS; write: 75,000 IOPS           Mean Time Between Failures (MTBF)         2,500,000 hour(s)           Terabytes Written (Max.)         2,360 TBW           Drive Writes Per Day (DWPD)         2.6 (3 yrs)           Certificate         CE/FCC/BSMI           Warranty         Warranty           • Speed may vary due to host hardware, software, usage, and storage capacity.		Vibration	20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency)	
Power Consumption (Sleep)         0.41 watt(s)           Power Consumption (Sleep)         0.41 watt(s)           Sequential Read/Write (CrystalDiskMark, max.)         Read: 530 MB/s; write: 460 MB/s           4K Random Read/Write (IOmeter, max.)         Read: 75,000 IOPS; write: 75,000 IOPS           Mean Time Between Failures (MTBF)         2,500,000 hour(s)           Terabytes Written (Max.)         2,360 TBW           Drive Writes Per Day (DWPD)         2.6 (3 yrs)           Certificate         CE/FCC/BSMI           Warranty         Warranty	Power	Power Consumption (Operation)	2.64 watt(s)	
4K Random Read/Write (IOmeter, max.)       Read: 75,000 IOPS; write: 75,000 IOPS         Mean Time Between Failures (MTBF)       2,500,000 hour(s)         Terabytes Written (Max.)       2,360 TBW         Drive Writes Per Day (DWPD)       2.6 (3 yrs)         Certificate       CE/FCC/BSMI         Warranty       Warranty         • Speed may vary due to host hardware, software, usage, and storage capacity.		Power Consumption (Sleep)	0.41 watt(s)	
Mean Time Between Failures (MTBF)       2,500,000 hour(s)         Terabytes Written (Max.)       2,360 TBW         Drive Writes Per Day (DWPD)       2.6 (3 yrs)         Certificate       CE/FCC/BSMI         Warranty       Warranty         • Speed may vary due to host hardware, software, usage, and storage capacity.		Sequential Read/Write (CrystalDiskMark, max.)	Read: 530 MB/s; write: 460 MB/s	
Performance     Terabytes Written (Max.)     2,360 TBW       Drive Writes Per Day (DWPD)     2.6 (3 yrs)       Warranty     Certificate     CE/FCC/BSMI       Warranty     Warranty     Three-year Limited Warranty       • Speed may vary due to host hardware, software, usage, and storage capacity.		4K Random Read/Write (IOmeter, max.)	Read: 75,000 IOPS; write: 75,000 IOPS	
Verter function       Intervention       Interventintervention       Intervention <td rowspan="3">Performance</td> <td>Mean Time Between Failures (MTBF)</td> <td>2,500,000 hour(s)</td>	Performance	Mean Time Between Failures (MTBF)	2,500,000 hour(s)	
Warranty         Certificate         CE/FCC/BSMI           Warranty         Three-year Limited Warranty           • Speed may vary due to host hardware, software, usage, and storage capacity.		Terabytes Written (Max.)	2,360 TBW	
Warranty         Warranty         Three-year Limited Warranty           • Speed may vary due to host hardware, software, usage, and storage capacity.         • Speed may vary due to host hardware, software, usage, and storage capacity.		Drive Writes Per Day (DWPD)	2.6 (3 yrs)	
Speed may vary due to host hardware, software, usage, and storage capacity.	Warranty	Certificate	CE/FCC/BSMI	
		Warranty	Three-year Limited Warranty	
• The workload used to rate DWPD may be different from your actual workload, which may vary due to host hardware, software		Speed may vary due to host hardware, software, usage, and storage capacity.		
Note usage, and storage capacity.	Note	<ul> <li>The workload used to rate DWPD may be different from your actual workload, which may vary due to host hardware, software, usage, and storage capacity.</li> </ul>		

## **Mechanical Dimensions**



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. Tel: +886-2-2792-8000 www.transcend-info.com

