

JF270M series

Description

Transcend JetFlash offers greater design flexibility and cost savings. Despite their compact size, the USB drives have excellent temperature flexibility from 0°C to 70°C. The USB drives are manufactured with high-quality controller and MLC NAND flash chips, providing excellent high endurance and performance that help to bring the quality and reliability.

Features

- Transcend's high quality MLC NAND flash technology
- Fully compatible with USB 3.1 Gen1
- Downward compatible with USB2.0
- Easy Plug and Play installation
- USB powered. No external power or battery needed
- Built-in ECC and Wear leveling
- LED indicates the usage status (Optional)



Product Features

1. Built-in ECC Engine

In event of errors, the combined data allow the recovery of the original data. The number of errors that can be recovered depends on the algorithm used.

2. Wear-leveling

This function means the data are no longer tied to a single physical area, which can extend Card's life expectancy.

3. Read Retry

The function allows the read voltage to be dynamically adjusted such that read errors are decreased or even eliminated.

Specifications

Physical Specification		
Connector Form Factor		USB Type-A
USB specification		USB3.1 Gen1 Super-Speed (5Gbps)
NAND flash		MLC flash
Dimensions (mm)	Length	61.5
	Width	18.6
	Height	8.7

Performance		
Model P/N	Sequential Read (MB/s)*	Sequential Write (MB/s)*
TS8GJF270M	160	25
TS16GJF270M	160	25
TS32GJF270M	160	40

Note: Maximum transfer speed recorded

* 25 °C , 4GB DRAM, Windows[®] 10, benchmark utility Crystal DiskMark 5.2.1, copied file 1000MB, unit MB/s

Endurance		
TeraBytes Written (T.B.W)	TS8GJF270M	8
	TS16GJF270M	16
	TS32GJF270M	31

*TBW is based on Transcend internal standard with fresh flash to calculate how much data can be written into the drive. TBW may vary due to different operation.

**1 TeraByte=1,000,000,000,000 bytes

Bus Mode/ Power Consumption		
Power Supply		5V ± 10%
		Value(Max.)
Super Speed Mode	Read	200
	Write	200
	Idle	90

Note: Power consumption is measured based on Transcend internal Test by USB3.1 Gen1 mode. All values are measured by Transcend internal standard, and may be different in different environment.

Environmental Specifications	
Operating Temperature	0°C to 70°C
Storage Temperature	- 40°C to 85°C
Vibration	3G(peak-to-peak), 5Hz to 800Hz (Frequency)
Shock	1500G, 0.5ms, 3axis
MTBF	1,000,000 hours

Order information

Capacity	Transcend Part Number
8GB	TS8GJF270M
16GB	TS16GJF270M
32GB	TS32GJF270M

The technical information above is based on industry standard data and has been tested to be reliable. However, Transcend makes no warranty, either expressed or implied, as to its accuracy and assumes no liability in connection with the use of this product. Transcend reserves the right to make changes to the specifications at any time without prior notice. Due to the complexity and variety of industrial applications, for special applications and environments, it is strongly suggested to contact Transcend or its authorized resellers beforehand for compatibility confirmation.

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Revision History

Version	Date	Note
0.1	2020/06/29	The 1 st edition
1.0	2020/07/08	Add TBW value