

## JF280T 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 3D NAND flash chips, providing excellent high endurance and performance that help to bring the quality and reliability.

### Features

- Transcend's 3D 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		
<b>Connector Form Factor</b>		USB Type-A
<b>USB specification</b>		USB3.1 Gen1 Super-Speed (5Gbps)
<b>NAND flash</b>		3D Flash
<b>Dimensions (mm)</b>	<b>Length</b>	61.5
	<b>Width</b>	18.6
	<b>Height</b>	8.7

Performance		
Model P/N	Sequential Read (MB/s)*	Sequential Write (MB/s)*
TS32GJF280T	140	30
TS64GJF280T	140	30
TS128GJF280T	140	40

Note: Maximum transfer speed recorded

\* 25 °C , 4GB DRAM, Windows<sup>®</sup> 7, benchmark utility Crystal DiskMark 3.0, copied file 1000MB, unit MB/s

Endurance		
<b><u>T</u>era<u>B</u>ytes <u>W</u>ritten (T.B.W)</b>	TS32GJF280T	80
	TS64GJF280T	160
	TS128GJF280T	320

\*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

<b>Bus Mode/ Power Consumption</b>		
<b>Power Supply</b>		5V ± 10%
		<b>Value(Max.)</b>
<b>Super Speed Mode</b>	<b>Read</b>	160mA
	<b>Write</b>	140mA
	<b>Idle</b>	90mA

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.

<b>Environmental Specifications</b>	
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
32GB	TS32GJF280T
64GB	TS64GJF280T
128GB	TS128GJF280T

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
1.0	2020/03/31	The 1 <sup>st</sup> edition