

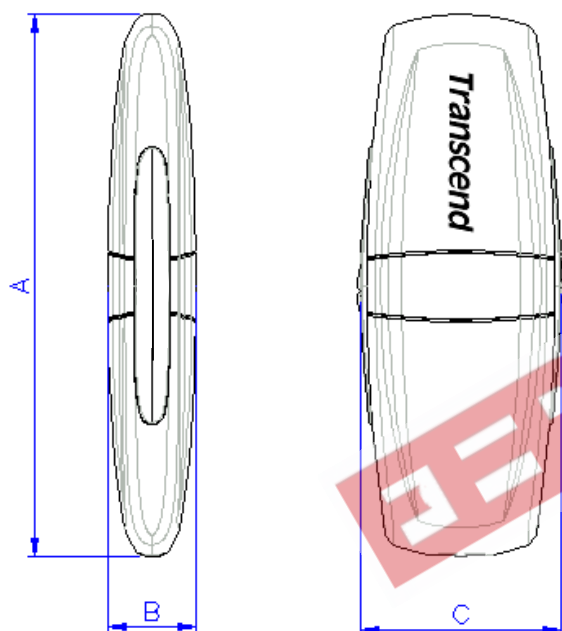
# TS32GJFV20

32GB USB2.0 JetFlash® V20

## Description

TS32GJFV20 is a 32GB USB Flash Drive with 2pcs of 16Gx8(or 4pcs of 8Gx8) Flash Memory assembled on printed circuit board.

## Outline



## Features

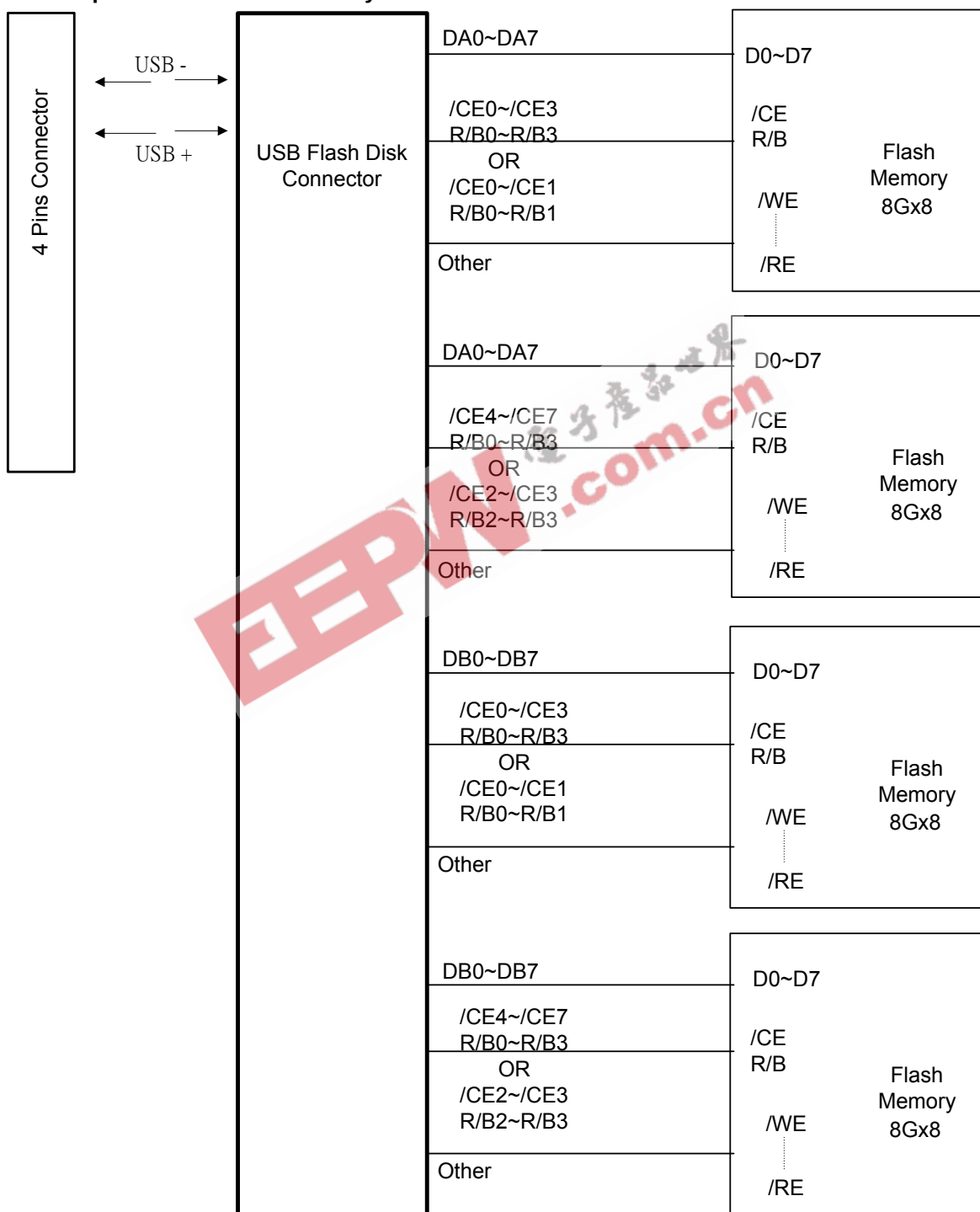
- Band Color: Black
- USB Interface: Compliant with USB specification 2.0.
- No external power or battery needed
- LED indicates the usage status.
- JetFlash® elite software pack includes (Windows Me/2000/XP/Vista only):
  - Favorites Function: store all your favorite website addresses on the JetFlash®
  - AutoLogin Function: automatically login to websites where you have a password
  - Secret-Zip Function: compress and/or password protect saved files using AES encryption
  - PC-Lock Function: makes JetFlash® a key to lock your computer
  - E-Mail Function: use your JetFlash® to securely send, receive and save e-mails
  - DataBackup Function: backup, restore and synchronize your data

## Dimensions

| Side | Millimeters   | Inches          |
|------|---------------|-----------------|
| A    | $88 \pm 1.00$ | $3.47 \pm 0.04$ |
| B    | $15 \pm 1.00$ | $0.59 \pm 0.04$ |
| C    | $33 \pm 1.00$ | $1.30 \pm 0.04$ |

### Block Diagram

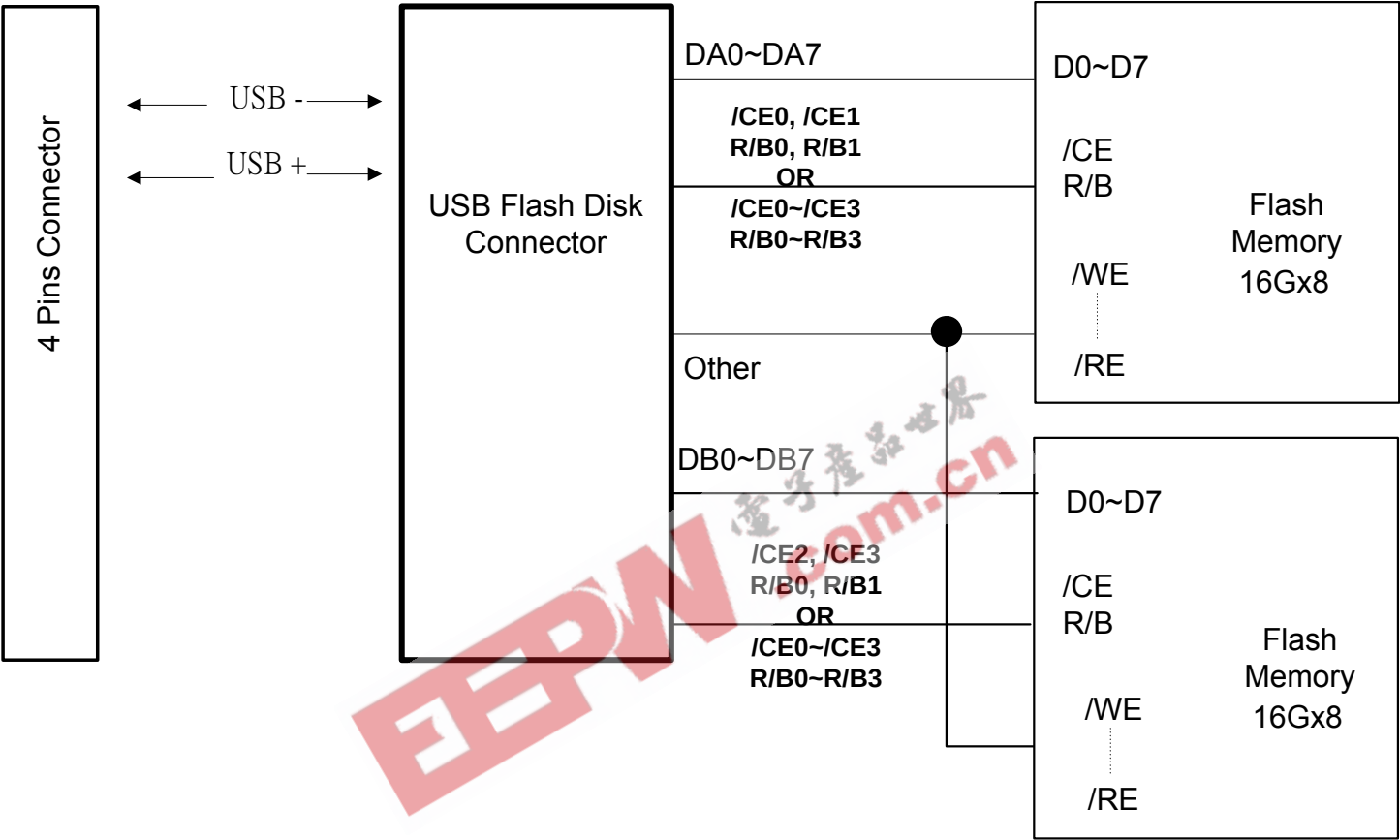
- With 4 pcs of 8Gx8 Flash Memory



# TS32GJFV20

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- With 2 pcs of 16Gx8 Flash Memory



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## Pinouts

| Pin No. | Pin Name |
|---------|----------|
| 01      | VCC      |
| 02      | USB-     |
| 03      | USB+     |
| 04      | VSS      |

## Pin Identification

| Symbol | Function                                            |
|--------|-----------------------------------------------------|
| USB-   | USB differential signal:                            |
| USB+   | The pairs are used to transmit Data/Address/Command |
| VSS    | Ground                                              |
| VCC    | USB power input                                     |

## Specifications

|                      |                                              |
|----------------------|----------------------------------------------|
| Storage Capacity     | 32GB                                         |
| Data Retention       | 10 years                                     |
| Erase Cycles         | >10,000 times                                |
| Connector Durability | 10,000 times                                 |
| System Performance   | Read: 10MB/sec (max.), Write: 3MB/sec (max.) |
| Power Supply         | DC 5V±10% via the USB port                   |
| Temperature Range    | Operation: 0-70°C, Non-Operating: -40°C-85°C |
| Certificates         | CE, FCC, BSMI                                |

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## Absolute Maximum Ratings

| Symbol          | Parameter     | Rating     | Unit |
|-----------------|---------------|------------|------|
| V <sub>CC</sub> | Power Supply  | 4.5 to 5.5 | V    |
| V <sub>IN</sub> | Input Voltage | 3 to 3.6   | V    |

## DC Characteristics:

| Symbol             | Parameter                                                                                    | Min. | Typ. | Max. | Units      |
|--------------------|----------------------------------------------------------------------------------------------|------|------|------|------------|
| I <sub>IL</sub>    | Input Leakage Current<br>(No pull-up or pull-down)                                           | -10  |      | 10   | $\mu$ A    |
| I <sub>OZ</sub>    | Tri-State Leakage Current                                                                    | -10  |      | 10   | $\mu$ A    |
| V <sub>IL</sub>    | Input Low Voltage                                                                            |      |      | 0.8  | V          |
| V <sub>IH</sub>    | Input High Voltage                                                                           | 2.0  |      |      | V          |
| V <sub>OL</sub>    | Output Low Voltage (I <sub>OL</sub> =4mA)                                                    |      |      | 0.4  | V          |
| V <sub>OH</sub>    | Output High Voltage (I <sub>OH</sub> =4mA)                                                   | 2.4  |      |      | V          |
| R <sub>t</sub>     | Input pull-up/down resistance<br>(V <sub>IL</sub> =0V or V <sub>IH</sub> = V <sub>CC</sub> ) | 40   | 75   | 190  | K $\Omega$ |
| I <sub>ACT</sub>   | Active Current                                                                               |      |      | 73   | mA         |
| I <sub>SLEEP</sub> | Sleep Current                                                                                |      |      | 120  | $\mu$ A    |

## Recommended Operating Conditions

| Symbol            | Parameter             | Min. | Typ. | Max. | Units |
|-------------------|-----------------------|------|------|------|-------|
| V <sub>CC</sub>   | Power Supply Voltage  | 4.5  | 5    | 5.5  | V     |
| V <sub>IN</sub>   | Input Voltage         | 3    | 3.3  | 3.6  | V     |
| V <sub>CC18</sub> | Internal Power Supply | 1.62 | 1.8  | 1.98 | V     |

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