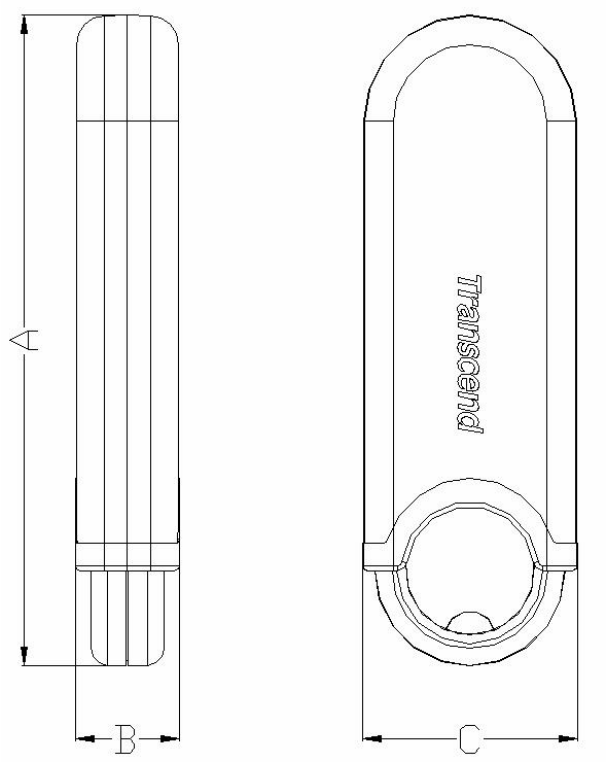
# TS2GJF210

**2GB USB2.0 JetFlash™210**

## Description

TS2GJF210 is a 2GB USB Flash Drive with Fingerprint Sensor and 1pcs of 2Gx8 Flash Memory assembled on printed circuit board.

## Outline




## Features

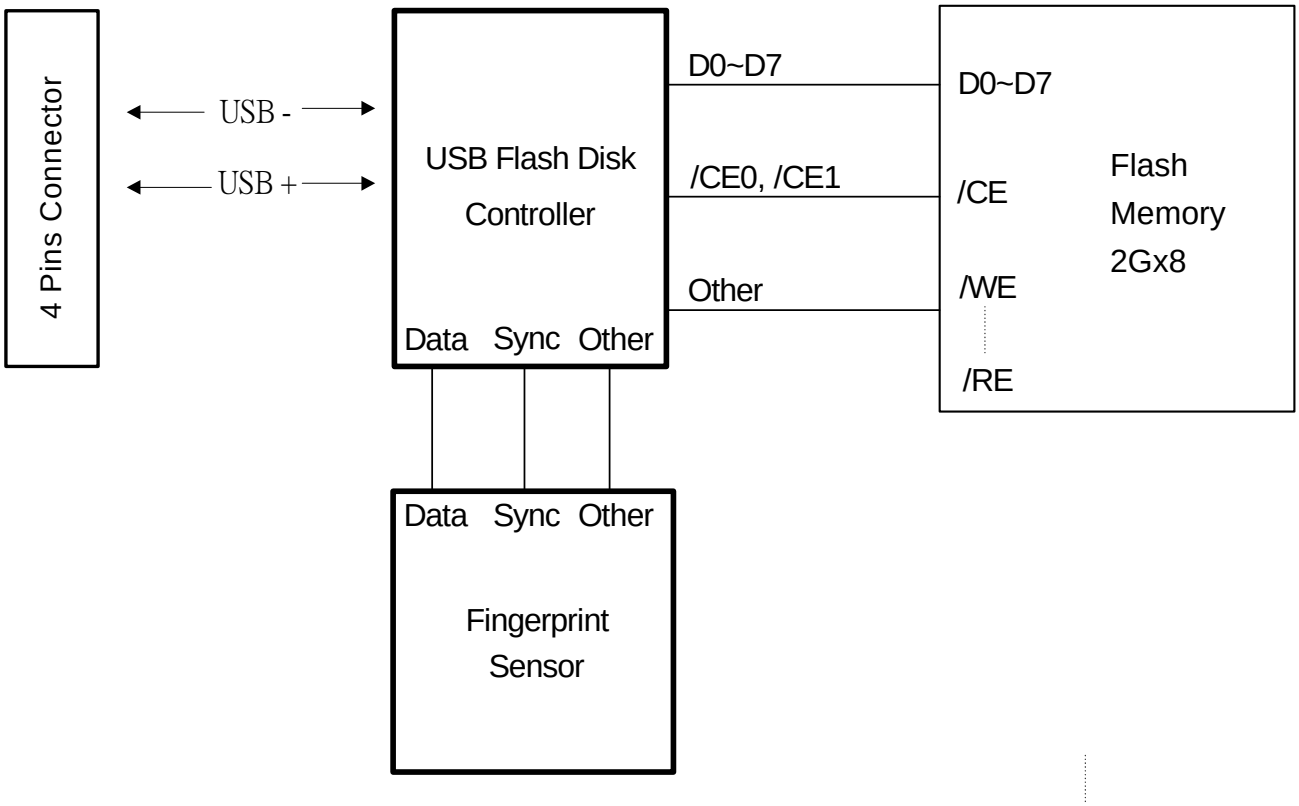
- Fully compatible with Hi-Speed USB 2.0
- Advanced Fingerprint Recognition Technology
- Fingerprint protect by AES 256-bit encryption
- Easy Plug and Play installation
- Driverless with Windows 2000, XP and Vista OS
- USB powered. No external power or battery needed
- LED indicates the usage status.

## Dimensions

| Side | Millimeters | Inches |
|---|---|---|
| A | 70 ± 1.00 | 2.76 ± 0.04 |
| B | 11 ± 1.00 | 0.43 ± 0.04 |
| C | 23 ± 1.00 | 0.91 ± 0.04 |

## Block Diagram

- **With Fingerprint Sensor and 1 pcs of 2Gx8 Flash Memory**



## 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 | 2GB |
| Data Retention | 10 years |
| Erase Cycles | >10,000 times |
| Connector Durability | 10,000 times |
| System Performance | Read: 10 MB/sec (max.), Write: 3 MB/sec (max.) |
| Power Supply | DC 5V±10% via the USB port |
| Temperature Range | Operation: 0-70°C |
| Weight | 13g |
| Certificates | CE, FCC, BSMI |

**DC Characteristics**

| Symbol | Parameter | Min | Max | Unit |
|---|---|---|---|---|
| $V_{IH\_TTL}$ | TTL Input High Voltage | 2 | Vcc3+0.3 | V |
| $V_{IL\_TTL}$ | TTL Input Low Voltage | -0.3 | 0.8 | V |
| $V_{OH\_TTL}$ | TTL Output High Voltage | 0.9Vcc3 | | V |
| $V_{OL\_TTL}$ | TTL Output Low Voltage | | 0.45 | V |
| $I_{OH\_TTL}$ | TTL Output High Current | -4 | | mA |
| $I_{OL\_TTL}$ | TTL Output Low Current | | 4 | mA |
| $V_{IH\_USB}$ | USB Input High Voltage for Low-/full-speed | 2.0 | | V |
| $V_{IL\_USB}$ | USB Input Low Voltage for Low-/full-speed | | 0.8 | V |
| $V_{I\_USB\_DIFF}$ | Differential Input Sensitivity for Low-/full-speed | TBD | | V |
| $V_{I\_USB\_CM}$ | Differential Common Mode Input Range for Low-/full-speed | 0.8 | 2.5 | V |
| $V_{I\_USB\_HSSQ}$ | USB High-speed squelch Input detection threshold | 0.1 | 0.15 | V |
| $V_{I\_USB\_HSDSC}$ | USB High-speed disconnect Input detection threshold | 0.525 | 0.625 | V |

| Symbol | Parameter | Min | Max | Unit |
|---|---|---|---|---|
| $V_{I\_USB\_HSCM}$ | USB High-speed Signaling Common Mode Range | -0.05 | 0.5 | V |
| $V_{OH\_USB}$ | USB Output High Voltage for Low-/full-speed | 2.8 | 3.6 | V |
| $V_{OL\_USB}$ | USB Output Low Voltage for Low-/full-speed | 0 | 0.3 | V |
| $V_{OH\_USB\_HS}$ | USB Output High Voltage for High-speed | 0.36 | 0.44 | V |
| $V_{OL\_USB\_HS}$ | USB Output Low Voltage for High-speed | -0.01 | 0.01 | V |
| $I_{OH\_USB}$ | USB Output High Current for Low-/full-speed | -10 | | mA |
| $I_{OL\_USB}$ | USB Output Low Current for Low-/full-speed | | 10 | mA |
| $I_{OH\_USB\_HS}$ | USB Output High Current for High-speed | -40 | | mA |
| $I_{OL\_USB\_HS}$ | USB Output Low Current for High-speed | | 40 | mA |