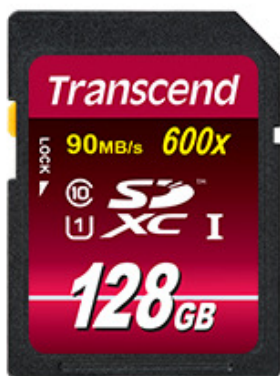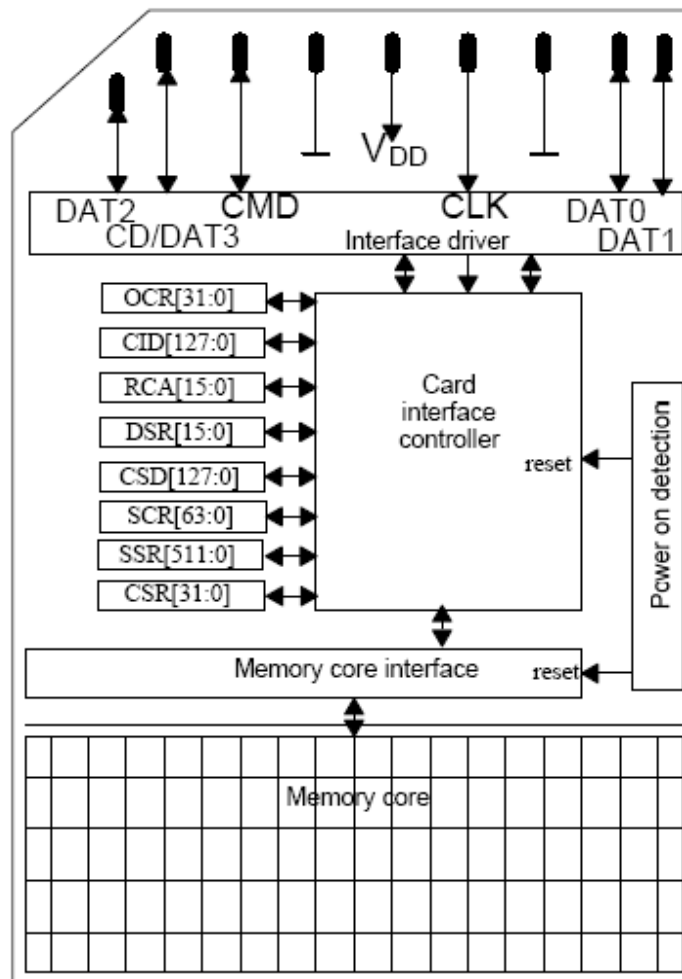# SD Class 10 UHS-I 600x

## Description

For professionals working with today's cutting-edge photography and video equipment, Transcend's Class 10 SDXC/SDHC UHS-I cards provide an incredible level of performance and vast storage capacity to meet the demands of high-resolution image capture and full HD video recording. Additionally, the top-tier MLC NAND flash chips inside provide consistent long-life durability and endurance.

## Features

- MLC flash-based performance and reliability

- Supports Ultra High Speed Class I specification

- Smooth Full HD video recording performance

- Class 10 compliant - Fully compatible with SD 3.01 standards

- Improved camera response for fast-action consecutive shooting

- Efficient exFAT file system (SDXC cards only)

- Built-in Error Correcting Code (ECC) to detect and correct transfer errors
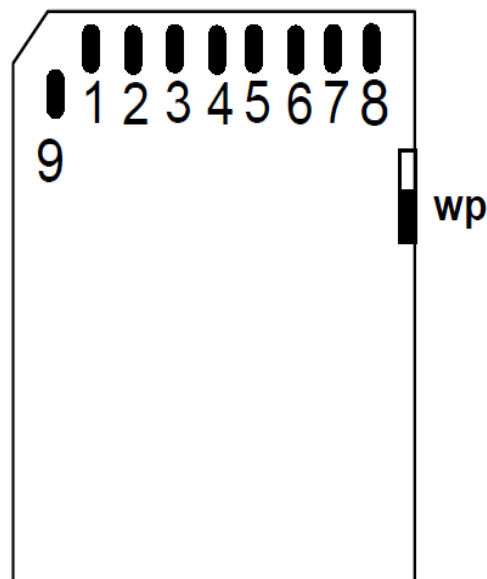
- Exclusive RecoveRx photo recovery software

## Architecture

# Pin Definition

| Pin No. | SD Mode | | SPI Mode | |
|---------|---------|---------|---------|---------|
| | **Name** | **Description** | **Name** | **Description** |
| 1 | CD/DAT3 | Card Detect/Data Line [Bit3] | CS | Chip Select (neg true) |
| 2 | CMD | Command/Response | DI | Data In |
| 3 | $V_{SS1}$ | Supply voltage ground | $V_{SS}$ | Supply voltage ground |
| 4 | $V_{DD}$ | Supply voltage | VDD | Supply voltage |
| 5 | CLK | Clock | SCLK | Clock |
| 6 | $V_{SS2}$ | Supply voltage ground | $V_{SS2}$ | Supply voltage ground |
| 7 | DAT0 | Data Line [Bit0] | DO | Data out |
| 8 | DAT1 | Data Line [Bit1] | RSV | Reserved |
| 9 | DAT2 | Data Line [Bit2] | RSV | Reserved |

# Specifications

| Physical Specification | | |
|---|---|---|
| **Form Factor** | | SD |
| **Dimensions (mm)** | **Length** | 32.00 ± 0.1 |
| | **Width** | 24.00 ± 0.1 |
| | **Height** | 2.1.00 ± 0.15 |

| Performance | |
|---|---|
| **Model P/N** | Read Performance |
| TS8GSDHC10U1 | |
| TS16GSDHC10U1 | |
| TS32GSDHC10U1 | Up to 90MB/S |
| TS64GSDXC10U1 | |
| TS128GSDXC10U1 | |

Note: Maximum transfer speed recorded

* 25 ℃ , 4GB DRAM, Windows® 7 with Transcend RDF5, benchmark utility Crystal DiskMark , copied file 1000MB, unit MB/s

| Environmental Specifications | |
|---|---|
| **Operating Temperature** | - 25℃ to 85℃ |
| **Storage Temperature** | - 40℃ to 85℃ |
| **Durability** | 10.000 mating cycles; |
| **Drop test** | 1.5m free fall |
| **Regulator** | CE/FCC/BSMI |

# Order information

| Capacity | Transcend Part Number |
|----------|----------------------|
| 8GB | TS8GSDHC10U1 |
| 16GB | TS16GSDHC10U1 |
| 32GB | TS32GSDHC10U1 |
| 64GB | TS64GSDXC10U1 |
| 128GB | TS128GSDXC10U1 |

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 | 2016/04/06 | The 1$^{st}$ edition |
| 1.1 | 2016/10/05 | Revise pin definition of SPI mode |
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