

# SD Card



## Main Features

- ◆ -Capacity: 8GB/16GB/32GB/64GB/128GB/256GB
- ◆ -Voltage operating: 2.7~3.6V.
- ◆ -Targeted for portable and stationary applications
- ◆ -Greater Performance choices
- ◆ -Sophisticated system for error recovery including a powerful ECC
- ◆ -Power management for low power operation
- ◆ -Write-protection using mechanical switch
- ◆ High quality, industrial-level

## Overview

Streamax SD Cards support Ultra High Speed(UHS)\*, providing high write/read speed and high IOPS. It was designed to meet the security, high capacity, high performance and environmental requirements inherent in next generation consumer electronic devices. The SD card system is a new mass-storage system based on innovations in semiconductor technology. It has been developed to provide an inexpensive, mechanically robust storage medium in card form for multimedia consumer applications. A low power consumption and a wide supply voltage range favors consumer electronic devices.

\*Ultra High Speed (UHS) Card

It provides up to 104MB/s\* performance. UHS cards are backward compatible on non-UHS hosts.

Based on internal testing; performance may vary depending upon host device. 1 megabyte(MB)=1,000,000bytes.

## Product list

Capacity	Actual Size (Min)	Speed Class	Write Speed (Typical)	UHS-I	Type
8GB	7.3GB	UHS-1	10MB/S	SDR104	SDHC
8GB	7.3GB	UHS-1	150X	SDR104	SDHC
8GB	7.3GB	UHS-3	266X	SDR104	SDHC
16GB	14.7GB	UHS-1	133X	SDR104	SDHC
16GB	14.7GB	UHS-3	266X	SDR104	SDHC
16GB	14.7GB	UHS-3	400X	SDR104	SDHC
32GB	29.4GB	UHS-3	266X	SDR104	SDHC
32GB	29.4GB	UHS-3	400X	SDR104	SDHC
32GB	29.4GB	UHS-3	600X	SDR104	SDHC
64GB	58.9GB	UHS-3	400X	SDR104	SDXC
64GB	58.9GB	UHS-3	600X	SDR104	SDXC
128GB	118GB	UHS-3	400X	SDR104	SDXC
256GB	241GB	UHS-3	400X	SDR104	SDXC

## Current Consumption

Standby current: 500uA (Maximum value)

Standby current: 150uA (Average value)

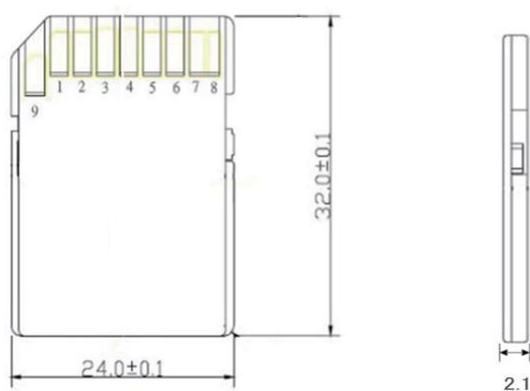
Operating current: 250mA (Maximum value)

Operating current: 150mA (Average value)

## Reliability and Durability

Temperature	Operation: -25°C/85°C Storage: -40°C/ 85°C
Moisture and corrosion	Operation: 25°C/95% rel. humidity Storage: 40°C/93% rel. hum./500h Salt Water Spray: 3% NaCl/35C; 24h acc. MIL STD Method 1009
Durability	10,000 mating cycles;
Bending	10[N] Center 200[mm/minute] 60[sec]
Torque	0.15Nm, +/-2.5 deg.max.
Drop test	1.5m free fall
Electrostatic Discharge (ESD)	IEC 61000-4-2 contact discharge: +/- 2[kV] and +/- 4[kV] 150[pF],330 [Ohm] air discharge: up to +/- 15[kV] 150[pF], 330[Ohm]

## Dimension (mm)



Type	Measurement
Length	32.00mm ±0.10mm
Width	24.00mm ±0.10mm
Thickness	2.10mm ±0.15mm
Weight	Approx.2.0 gram