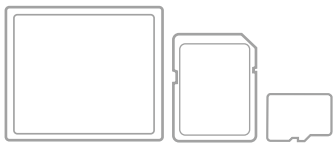
Embedded Solutions

SD / microSD Card

Transcend's SD and microSD cards are cost-effective solutions, combining the advantages of high performance and exceptional endurance at affordable prices. Built with high-quality NAND Flash chips, Transcend's embedded memory cards offer high-speed data transfer rates, maximum storage space, and the tenacity to withstand wide operating temperatures ranging from -25°C/-40°C to 85°C. These make them best suited for demanding industrial environments where performance and reliability are of upmost importance.

Features

- RoHS compliant
- Suitable for wide-temperature applications
- Manufactured with top-quality NAND Flash for extended lifespan and stability
- Excellent endurance
- Cost-effective solutions
- Compatible with SD Specification Ver. 3.01 and/or UHS-I
- Supports Speed Class Specification up to Class 10
- Mechanical write protection switch
- Built-in Error Correcting Code (ECC) to detect and correct transfer errors
- Supports ESD IEC 61000-4-2



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Specifications

	SDC10M	SDHC10I	SDC220	SD100I	USDC10M	USDC10I	USD220I
Interface	SD 3.0						
Flash Type	MLC		SUPER MLC	SLC	MLC		SUPER MLC
Connector	SD connector				microSD connector		
Form Factor	SD flash card				microSD flash card		
Capacity	8GB~128GB	8GB~32GB	32GB~128GB	128MB~16GB	8GB~32GB	8GB~64GB	4GB~32GB
Sequential Read*	24 MB/s	22 MB/s	95 MB/s	24 MB/s	24 MB/s	21 MB/s	95 MB/s
Sequential Write*	22 MB/s	18 MB/s	80 MB/s	21 MB/s	12 MB/s	17 MB/s	75 MB/s
Operating Temperature	-25°C~85°C	-40°C~85°C	-25°C~85°C	-40°C~85°C	-25°C~85°C	-40°C~85°C	
Storage Temperature	-40°C~85°C						
Humidity	0%~95%						
Shock	1500G						
Vibration	2G (peak-to-peak), 10Hz to 2000Hz (frequency)						
Operating Voltage	2.7V~3.6V						
Power Consumption	0.72W		2.88W	0.72W			2.88W
Dimensions (max.)	32 x 24 x 2.1mm				11 x 15 x 1mm		
MTBF	>3,000,000 hours						
Warranty	Two-year Limited Warranty						

*Maximum performance shown. Performance varies by capacity, user hardware, and system configuration.

Ordering Information

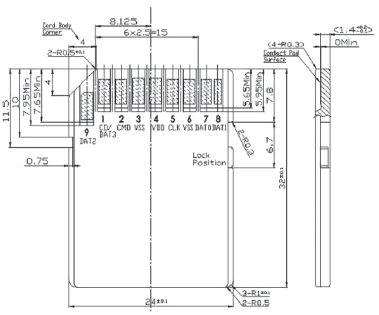
SDC10M	MLC	TS8GSDHC10M	8GB
		TS16GSDHC10M	16GB
		TS32GSDHC10M	32GB
		TS64GSDXC10M	64GB
		TS128GSDXC10M	128GB
SDHC10I	MLC	TS8GSDHC10I	8GB
		TS16GSDHC10I	16GB
		TS32GSDHC10I	32GB
SDC220	SUPER MLC	TS32GSDC220	32GB
		TS64GSDC220	64GB
		TS128GSDC220	128GB

SD100I	SLC	TS128MSD100I	128MB
		TS256MSD100I	256MB
		TS512MSD100I	512MB
		TS1GSD100I	1GB
		TS2GSD100I	2GB
		TS4GSDHC100I	4GB
		TS8GSDHC100I	8GB
USDC10M	MLC	TS16GSDHC100I	16GB
		TS8GUSDC10M	8GB
		TS16GUSDC10M	16GB
		TS32GUSDC10M	32GB

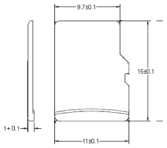
USDC10I	MLC	TS8GUSDC10I	8GB
		TS16GUSDC10I	16GB
		TS32GUSDC10I	32GB
		TS64GUSDC10I	64GB
USD220I	SUPER MLC	TS4GUSD220I	4GB
		TS8GUSD220I	8GB
		TS16GUSD220I	16GB
		TS32GUSD220I	32GB

Drawing

SD card



microSD card



Custom orders welcome!

Please feel free to contact us with any special requests you might have.

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