

Capacity (SD/SDHC/SDXC)

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> **Developers**

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There are three standards for capacity:



SD standard - Up to 2GB SD memory card using FAT 12 and 16 file systems



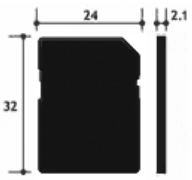
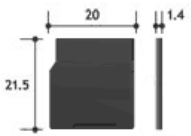

SDHC standard - over 2GB-32GB SDHC memory card using FAT32 file system



SDXC standard - over 32GB-2TB SDXC memory card using exFAT file system

		SD Standard	SDHC Standard	SDXC Standard
Capacity		up to 2GB	more than 2GB up to 32GB	more than 32GB up to 2TB
File System		FAT 12, 16	FAT 32	exFAT
SD Logo				
Card Specifications	SD	32 x 24 x 2.1 mm, Approx 2g		
	miniSD	20 x 21.5 x 1.4 mm, Approx 1g		
	microSD	11 x 15 x 1.0 mm, Approx 0.5g		
Bus Speed		Normal Speed (NS) High Speed (HS)	NS, HS UHS-I	NS, HS UHS-I
Speed Classes	NS, HS mode	Speed Class	Speed Class	Speed Class
	UHS-I mode		Speed Class UHS Speed Class	Speed Class UHS Speed Class

For more details on the physical standards of SD standards, please find the following matrixes.

	SD	miniSD	microSD	
Size				
Card Type	SD, SDHC, SDXC	SD, SDHC	SD, SDHC, SDXC	
Physical	Area	768 mm ² (100)	430 mm ²	165 mm ²
	Card Volume	1,613 mm ³ (100)	602 mm ³	165 mm ³
	Thickness	2.1 mm	1.4 mm	1.0 mm
	Weight	Approx. 2g	Approx. 1g	Approx. 0.5g
	Number of pins	9 pins	11 pins	8 pins
	File System	FAT16/32	FAT16/32	FAT16/32
	Operating Voltage	2.7V - 3.6V	2.7V - 3.6V	2.7V - 3.6V
Write-protect Switch	YES	NO	NO	
Copyright protection	CPRM	CPRM	CPRM	

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