

SanDisk Memory Stick PRO Duo™ Memory Card

Faster performance, higher capacities, and better security in only one-third the size.

The SanDisk Memory Stick PRO Duo is an ultra-compact flash memory card designed for use in the newest generation of cell phones, digital still and video cameras, digital music players, and other size-sensitive mobile devices. This miniaturized Memory Stick flash card offers the performance and functionality of a full-sized Memory Stick PRO card—in only one-third the size!

Co-developed by Sony Corporation and SanDisk, the new Memory Stick PRO Duo card measures only 20 x 31 x 1.6 mm (0.8 x 1.2 x 0.06 inches), weighs just 2.0 grams, and features a sophisticated controller interface that performs dedicated flash memory management. The Memory Stick PRO Duo card offers host designers numerous advantages over previous Memory Stick cards. These advantages include easier host controller design, lower host cost, faster host design time to market, longer host system battery life, and full backward host compatibility with Memory Stick 1.3 and 1.4 cards.

In addition to providing higher capacities (theoretical maximum of 32GB) and faster data transfer speeds (up to 20 Megabytes/sec) than first generation Memory Stick cards, the Memory Stick PRO Duo is also much more secure. The Memory Stick PRO Duo cards feature advanced MagicGate™ copyright-protected content and a minimum write speed of 15Mb/s that assures real-time recording of high-resolution audio and video.



Memory Stick PRO Duo™ Card Specifications*

Power	
DC Input Voltage	2.7V to 3.6V
Typical Power Dissipation	
Standby (Sleep Mode)	<250 µA @ 25°C 3.3V
Serial Access	<65 mA
Parallel Access	<100 mA
Environmental	
Temperature	
Operating Temperature	-25°C to 85°C
Storage Temperature	-40°C to 85°C
Humidity	
Operating Humidity	Max 95% (saturated state)
Storage Humidity	Max 95% (saturated state)
Reliability and Maintenance	
MTBF	>1,000,000 Hours
Data Reliability	<1 non-recoverable error in 10 ¹⁴ bits read
Physical	
Length	20 mm
Width	31 mm
Thickness	1.6 mm
Capacities Offered	
	16MB
	32MB
	64MB
	128MB
	256MB
	512MB**
	1GB**

**2nd Half 2004

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