





# Industrial Grade SD Memory Cards

## Product Leaflet

	<b>MLC JD Series</b> <span style="float: right;">MADE IN JAPAN</span> Industry's first* <sup>2</sup> bit-error-free SD card* <sup>3</sup> with RAID technology		<b>MLC P Series</b> <span style="float: right;">MADE IN JAPAN</span> Basic series suitable for various industrial equipment			<b>MLC KC Series</b> <span style="float: right;">MADE IN JAPAN</span> MicroSD series with power failure recovery suitable for embedded use		
Model	RP-SDJD32	RP-SDJD64	RP-SDPC04	RP-SDPC08	RP-SDPC16	RP-SMKC04	RP-SMKC08	RP-SMKC16
								
Capacity <sup>1</sup>	32GB	64GB	4GB	8GB	16GB	4GB	8GB	16GB
Flash Memory/Type	Multi-Level Cell (MLC) NAND Flash Memory		Multi-Level Cell (MLC) NAND Flash Memory			Multi-Level Cell (MLC) NAND Flash Memory		
SD Physical Specification	Ver. 4.10 (UHS-II Compliant)		Ver. 3.01 (No UHS-I Compliant)			Ver. 3.01 (UHS-I Compliant)		
Speed Class	UHS Speed Class 1	Speed Class 10, UHS Speed Class 1	Speed Class 4			Speed Class 2 (No UHS Speed Class Compliant)		
Operating Temperature	-25 to +85°C		-40 to +85°C			-40 to +85°C		
Controller	Designed by Panasonic		Designed by Panasonic			Designed by Panasonic		
Functions	RAID Technology, Power Failure Recovery, Error Correction Code, Refresh Function, Static Wear Levelling, Intelligent Data Writing		Power Failure Recovery <sup>4</sup> , Error Correction Code, Refresh Function, Static Wear Levelling, Intelligent Data Writing			Double Power Failure Recovery, Error Correction Code, Refresh Function, Static Wear Levelling, Intelligent Data Writing		
Write/Read Tests for All Memory Areas	Completed		Completed			Completed		
Size (HxWxD)	32.0 x 24.0 x 2.1mm		32.0 x 24.0 x 2.1mm			15.0 x 11.0 x 1.1mm		

\*1 SD Card utilises a portion of the memory for copy protection and other purposes. Therefore the usable capacity will be less.

\*2 For Industrial SD Cards. As of April 1st, 2014.

\*3 All bit error correction cannot be guaranteed.

\*4 Customisable.

## FEATURES

### > Temperature Resistance

Operation is assured even under harsh temperature conditions

### > Electrostatic Resistance

IEC 61000-4-2 compliance: Clears Electrostatic Discharge Immunity Tests of 150pF energy storage capacitance, 15kV aerial discharge and 330Ω discharge resistance

### > Impact Resistance

Bending load resistance: 20N (Newton) min., (SD standard: 10N)  
Twisting torque resistance: 0.3N~m (Newton meter) min.  
(SD standard: 0.15N~m) – for a full size SD card only

### > Magnetic Resistance

Operable after being set onto a 1,000-gauss DC magnetic field for approx. 1 minute

### > X-Ray Resistance

ISO 7816-1 compliance: Operable after 0.1Gy (gray) of X-ray irradiation

### > Water Resistance

JIS IPX7 compliance: Operable after submerging the product in water (tap water, 1m depth) for 30 minutes – microSD only

### > Durability against Insertion / Removal











Tested for 10,000 cycles of card insertion/removal using a card reader

### > Built-in Fuse

The internal card fuse protects against excess current and abnormal heating

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		<b>SLC FX Series</b> <span style="float: right;">MADE IN JAPAN</span> High grade series with superb rewriting durability suitable for long-term data storage					<b>MLC GD Series</b> <span style="float: right;">MADE IN JAPAN</span> Ideal for recording large-volume image data				
Model	RP-SDFC51	RP-SDF02G	RP-SDF04G	RP-SDF08G	RP-SDF16G	RP-SDGD04	RP-SDGD08	RP-SDGD16	RP-SDGD32	RP-SDGD64	
											
Capacity*1	512MB	2GB	4GB	8GB	16GB	4GB	8GB	16GB	32GB	64GB	
Flash Memory/Type	Single-Level Cell (SLC) NAND Flash Memory					Multi-Level Cell (MLC) NAND Flash Memory					
SD Physical Specification	Ver. 3.01 (No UHS-I Compliant)		Ver. 3.01 (UHS-I Compliant)			Ver. 3.01 (UHS-I Compliant)					
Speed Class	Speed Class 6		Speed Class10, UHS Speed Class 1			Speed Class 10, UHS Speed Class 1					
Operating Temperature	-40 to +85°C					-25 to +85°C					
Controller	Designed by Panasonic					Designed by Panasonic					
Functions	Double Power Failure Recovery, Error Correction Code, Refresh Function, Static Wear Levelling, Intelligent Data Writing					Power Failure Recovery, Error Correction Code, Refresh Function, Static Wear Levelling, Intelligent Data Writing					
Write/Read Tests for All Memory Areas	Completed					Completed					
Size (HxWxD)	32.0 x 24.0 x 2.1mm					32.0 x 24.0 x 2.1mm					

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