

Apacer

The Most **Reliable**
Storage For Industries

Industrial SD R1-M



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Overview

For Apacer industrial SD R1-M the demand of reliable and high-performance data storage in a small form factor increases, Apacer's SD R1-M is designed specifically for rigorous applications by offering maximum endurance, reliability, and agility, where extreme traceability, enhanced data integrity, and exceptionally velocity are required.

Regarding compatibility, this industrial SD card is compatible with SD Memory Card Specifications, Physical Layer specification, File System Specification and Part 3 Security Specification. Furthermore, the SD card is compatible with SD protocol. With built in ECC, wear-leveling and bad block management, this industrial SD card serves as an ideal portable storage solution.

*The actual available memory on the device is less than what is listed on the package. This is due to small discrepancies in file formats and algorithms used by various operating systems. In addition, a portion of memory space is reserved for system files and data sectors for better performance.



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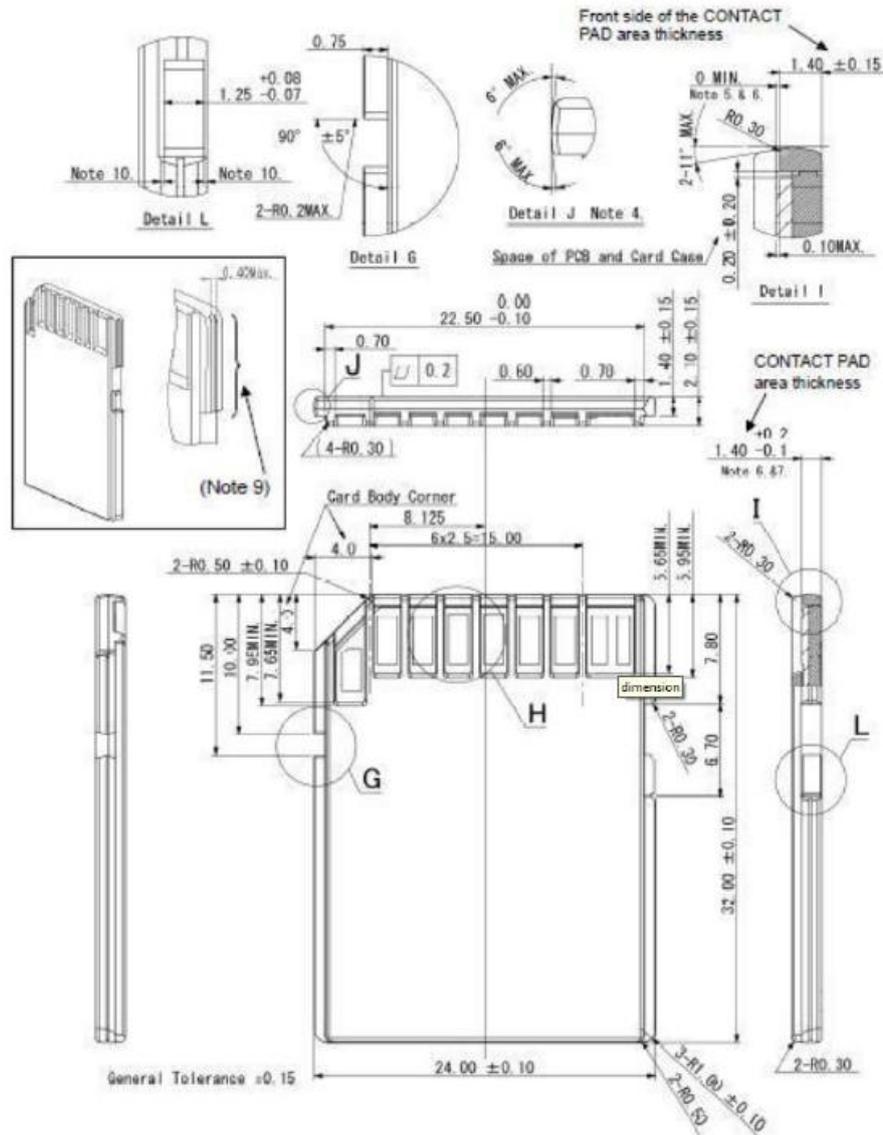
Feature

- Compliant with SD 5.1 Specification
- S.M.A.R.T supported
- Wear-Leveling and Block Management
- Support Class 10 with UHS-I
- Low Power Consumption
- Wide Temperature Support (Optional)

Specifications

Model	Industrial SD R1-M
Interface	SD3.0
Connector	-
Form Factor	SD
Operation Mode	NULL
Transfer Mode	NULL
NAND Flash Type	MLC
Capacity	SDHC: 8GB ~ 16GB
Sustained Read Performance (MB/sec)	Up to 90
Sustained Write Performance (MB/sec)	Up to 25
ECC Engine	Built-in 42-bit per 1K bytes BCH ECC
IOPs (4K Random Write)	95
Standard Operating Temperature (°C)	-25 ~ + 85
Extended Operating Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-40 ~ + 85
H/W Write Protect	-
Shock	(Operating) 1,500G, 0.5ms
Vibration	20Hz~80Hz/1.52mm (frequency/displacement) 80Hz~2,000Hz/20G (frequency/accelerate)
Operating Voltage	2.7V ~ 3.6V
Power Consumption	Active mode: 115mA ; Idle mode: 265 uA
Dimension (L x W x H)	32 x 24 x 2.1 (mm)
MTBF (hours)	>3,000,000

Mechanical Specification



For more information,
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