# Apacer

# The Most **Reliable** Storage For Industries

### **Industrial microSD R1-M**







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#### **Overview**

Apacer R1-M microSD/SD memory cards are built with original high-quality MLC chips and are subject to rigorous environmental testing. Used with page mapping firmware, it increases the random read and write speed several tens of megabytes per second faster, making it more effective in processing small random writes. The value-adding function of firmware technology also significantly reduces the write amplification factor (WAF), prolonging product life and durability. Furthermore, customized firmware optimizing tools, such as write protect, protect stored contents, ensuring date security and integrity.



Compatible with the latest SD3.0 interface, the Apacer R1-M series microSD/SD memory cards are available in capacities of 8GB to 128GB despite their small form factor and demonstrate excellent performance while consuming little power.

#### **Feature**

- Compliant with SD 3.0 Specification
- S.M.A.R.T supported
- Page mapping
- Support SD mode and SPI mode
- · Global Wear-Leveling and Block Management
- Read disturb management
- Low Power Consumption

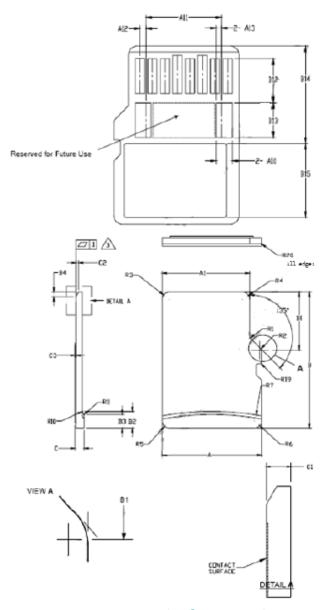


### **Specifications**

Model	Industrial microSD R1-M
Interface	SD3.0
Connector	_
Form Factor	microSD
Transfer Mode	NULL
NAND Flash Type	MLC
Capacity	8GB~128GB
Sustained Read Performance (MB/sec)	Up to 90
Sustained Write Performance (MB/sec)	Up to 75
ECC Engine	Built-in 43-bit per 1K bytes BCH ECC
Standard Operating Temperature ( °C )	-
Extended Operating Temperature ( °C )	-40 ~ + 85
Storage Temperature ( °C )	-40 ~ + 100
H/W Write Protect	-
Shock	(Operating) 1,500G, 0.5ms
Vibration	Operating: 20Hz~80Hz/1.52mm (frequency/displacement) 80Hz~2000Hz/20G (frequency/displacement) X, Y, Z axis/60mins each
Operating Voltage	3.3 V ± 5%
Power Consumption	Active mode: 120mA ; Idle mode: 370 uA
Dimension (L x W x H )	15mm x 11mm x 1mm
MTBF (hours)	>3,000,000



### **Mechanical Specification**



Unit: mm

# For more information, contact your Apacer representative

#### **Global Presence**

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