



MemoRight Part Number	MRS020E032GAS25I	MRS020E064GAS25I	MRS020E128GAS25I
Unformatted Capacity	32GB	64GB	128GB
Media (NAND Flash Memory Type)	SLC	SLC	SLC
Form Factor / Environment Grade	2.5 inch / Commercial		
Interface (Gb/sec)	PATA		
<b>Performance</b>			
Access Time	<0.1ms	<0.1ms	<0.1ms
Max. sustained Read transfer (MB/sec)	>120	>120	>100
Max. sustained Write transfer (MB/sec)	>120	>120	>100
Random IOPS @512Bytes - Read	>10,000	>10,000	>10,000
Random IOPS @512Bytes - Write	>500	>500	>500
<b>Reliability / Durability</b>			
Wear- Leveling Algorithm	Dynamic, static and active (initiative)		
Reserve Block Management Algorithm	Yes		
S.M.A.R.T. compatibility	Supported		
Write Endurance, 1TB/Day (years)	>5	>10	>20
Read Endurance	Infinite	Infinite	Infinite
Data Retention (years)	10 years (under room temperature)		
MTBF (hours)	>1,100,000	>1,100,000	>1,100,000
<b>Data Integrity</b>			
Power Failure Data Loss	No Loss (in-drive UPS)		
Non recoverable read Errors per Bits Read	<10 <sup>-14</sup>	<10 <sup>-14</sup>	<10 <sup>-14</sup>
ECC (bits/528 Byte)	4	4	4
<b>Power Consumption</b>			
Voltage	5V +/-5%		
Sustain Read / Write (watts)	2.0 / 2.0		
Idle/Standby (watts)	1.0/1.0		
<b>Environment</b>			
Temperature (Operating) (° C)	-40°C~85°C		
Temperature (Non-Operating) (° C)	-55°C~95°C		
Shock (Operating) (Gs)	50G (Duration 11 msec, Half Sine Wave)		
shock (Non-operating) (Gs)	1500G (Duration 0.5 msec, Half Sine Wave)		
Vibration (Operating) (g)	16.4G (Peak , 10~2000Hz, x3 Axis)		
Altitude (Operating) (feet)	-1,000~80,000		
Humidity (Operating)	5%,95% (non-condensing)		
Acoustic (bels. Typical)	0		
<b>Physical Size</b>			
Length (in/mm)	3.956 / 100.5		
Width (in/mm)	2.75 / 69.85		
Height (in/mm)	0.374 / 9.5		
Weight (grams)	78.0±5.0		88.0±5.0
<b>Industry Standards Certification &amp; Regulatory</b>			
FCC, CE, RoHS, UL/CUL			
<b>Warranty</b>			
5 years ( Free for first three and chargeable for the next two)			