

RRT-35PATA

3.5" IDE/PATA Solid State Drive (SSD)

Red Rock Technologies, Inc. offers a long-term industrial grade solution for replacement of obsolete 3.5" IDE/PATA drives, Seagate, Western Digital, Hitachi and IBM.

Our unique product is designed for 3.5" form factor and does not use SATA/PATA adapters.

FEATURES

- Drop in replacement for obsolete 3.5 IDE/PATA drives
- Conforms with ATA/ATAPI7
- Transfer rates up to 150 MB/s
- Capacities up to 512 GB
- Commercial temperature range (0°C to 70°C)
- Extended temperature range (-40°C to 85°C)
- Conformal coating available
- Rugged options available
- RoHS compliant
- US-based engineering and manufacturing
- In-house technical support

ORDERING INFORMATION

RRT-35PATA- - - - -

NAND FLASH TYPE	
SLC	SINGLE LEVEL CELL
MLC	MULTI LEVEL CELL
CAPACITY	
MLC CAPACITY UP TO 512 GB	
SLC CAPACITY UP TO 64 GB	
EXTENDED TEMP. RANGE*	
X	-40° C to 85° C
CONFORMAL COATING*	
UR	POLYURETHANE
AR	ACRYLIC
RUGGED*	
R	EXTENDED SHOCK/VIBRATION

ORDER EXAMPLES:

RRT-35PATA-SLC-64GB-UR-X-R
RRT-35PATA-MLC-512GB

*OPTIONS MAY BE LEFT BLANK



PERFORMANCE

NAND FLASH TYPE	SLC	MLC
CAPACITIES ¹	UP TO 64 GB	UP TO 512 GB
INTERFACE	STANDARD IDE 40-PIN CONNECTOR	
THROUGHPUT	UP TO 150 MB/S	
SECTOR SIZE	512 BYTE	

RELIABILITY

MTBF (HOURS) ²	2 MILLION	1 MILLION
ENDURANCE (100 GB SSD)	350 TB	70 TB
DATA RETENTION	10 YEARS ³	1 YEAR ⁴

POWER

PHYSICAL

VOLTAGE	+5V ± 5%	FORM FACTOR	3.5" DRIVE
WATTS (IDLE)	0.5 W	WEIGHT	15 OZ MAX (420 G)
WATTS (ACTIVE)	2 W MAX	DIMENSIONS	4.0", 5.75" & 1.0"

ENVIRONMENTAL

NOTES

OPERATING TEMP.	-0°C to 70°C	<p>(1) Larger capacities available as new COTS 2.5" drives released</p> <p>(2) Telcordia SR-332, Issue 3, operating temp. (40°C), electrical stress (50%), environmental factor (1.0)</p> <p>(3) SLC: 10 years at 10% TBW ramping down to 1 year at 100% TBW</p> <p>(4) MLC: 10 years at 0% TBW ramping down to 1 year at 100% TBW</p> <p>(5) Thermal qualification: MIL-STD-810F, Method 501, Procedure II, and MIL-STD-810F, Method 502, Procedure II</p> <p>(6) Relative Humidity qualification: MIL-STD-810F, Method 507</p> <p>(7) Altitude qualification: MIL-STD-810F, Method 500, Procedure I</p> <p>(8) Shock qualification: MIL-STD-810F, Method 516, Procedure I, terminal peak saw tooth</p> <p>(9) Vibration qualification: MIL-STD-810F, Method 514, Procedure I</p>
STORAGE TEMP.	-40°C to 85°C	
EXTENDED OPERATING TEMP. ⁵	-40°C to 85°C	
EXTENDED STORAGE TEMP.	-40°C to 85°C	
RELATIVE HUMIDITY ⁶	5% TO 95% NON-CONDENSING	
ALTITUDE ⁷	80,000 FT (24,000 METERS)	
SHOCK	50g 11 MILLISECOND	
SHOCK - RUGGED ⁸	1500g 0.5 millisecond	
VIBRATION	12.0g 20 Hz to 2000 Hz	
VIBRATION - RUGGED ⁹	16.3g 20 Hz to 2000 Hz	

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