

# RRT-35IDE

## 3.5" IDE Solid State Drive (SSD)

Red Rock Technologies, Inc. offers a long-term industrial grade solution for replacement of obsolete 3.5" IDE/ATA drives from 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/ATA drives
- 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-35IDE-□-□-□-□-□

REQUIREMENTS	
NAND FLASH TYPE	
SLC	SINGLE LEVEL CELL
MLC	MULTI LEVEL CELL
CAPACITY	
MLC	CAPACITIES UP TO 512 GB
SLC	CAPACITIES UP TO 64 GB

OPTIONS (MAY BE LEFT)	
EXTENDED TEMP.	
X	-40°C to 85°C
CONFORMAL COATING	
UR	POLYURETHANE
AR	ACRYLIC
RUGGED	
R	EXTENDED SHOCK/VIBRATION

### ORDER EXAMPLES:

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



PERFORMANCE			
NAND FLASH TYPE	SLC	MLC	
CAPACITIES <sup>1</sup>	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) <sup>2</sup>	2 MILLION	1 MILLION	
ENDURANCE (100 GB SSD)	350 TB	70 TB	
DATA RETENTION	10 YEARS <sup>3</sup>	1 YEAR <sup>4</sup>	
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	(1) Larger capacities available as new COTS 2.5" drives released (2) Telcordia SR-332, Issue 3, operating temp. (40°C), electrical stress (50%), environmental factor (1.0) (3) SLC: 10 years at 10% TBW ramping down to 1 year at 100% TBW (4) MLC: 10 years at 0% TBW ramping down to 1 year at 100% TBW (5) Thermal qualification: MIL-STD-810F, Method 501, Procedure II, and MIL-STD-810F, Method 502, Procedure II (6) Relative Humidity qualification: MIL-STD-810F, Method 507 (7) Altitude qualification: MIL-STD-810F, Method 500, Procedure I (8) Shock qualification: MIL-STD-810F, Method 516, Procedure I, terminal peak saw tooth (9) Vibration qualification: MIL-STD-810F, Method 514, Procedure I	
STORAGE TEMP.	-40°C to 85°C		
EXTENDED OPERATING TEMP. <sup>5</sup>	-40°C to 85°C		
EXTENDED STORAGE TEMP.	-40°C to 85°C		
RELATIVE HUMIDITY <sup>6</sup>	5% TO 95% NON-CONDENSING		
ALTITUDE <sup>7</sup>	80,000 FT (24,000 METERS)		
SHOCK	50g 11 MILLISECOND		
SHOCK - RUGGED <sup>8</sup>	1500g 0.5 millisecond		
VIBRATION	12.0g 20 Hz to 2000 Hz		
VIBRATION - RUGGED <sup>9</sup>	16.3g 20 Hz to 2000 Hz		

Red Rock Technologies, Inc. reserves the right to modify, change or discontinue specific products within its product line at its own discretion. Red Rock Technologies, Inc. does not assume any liability resulting from the application or use of its products. The information contained herein has been checked and is believed to be entirely accurate, however, no responsibility is assumed for inaccuracies.

"Red Rock Technologies" and the mountain logo are registered trademarks of Red Rock Technologies, Inc.  
 © Copyright 2019 Red Rock Technologies, Inc.  
 All rights reserved. (Rev.20200501a)