

# 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 128 GB
- Commercial temperature range (0°C to 70°C)
- Extended temperature range (-25°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
eMLC	ENHANCED MULTI LEVEL CELL
MLC	MULTI LEVEL CELL
CAPACITY	
SLC	CAPACITIES UP TO 60GB
eMLC	CAPACITIES UP TO 120GB
MLC	CAPACITIES UP TO 120GB
OPTIONS (MAY BE LEFT BLANK)	
EXTENDED TEMP. RANGE (X)	
SLC	-40°C to 85°C
eMLC	-25°C to 85°C
MLC	-25°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-128GB



PERFORMANCE			
NAND FLASH TYPE	SLC	eMLC	MLC
CAPACITIES <sup>1</sup>	UP TO 60GB	UP TO 120GB	UP TO 120GB
INTERFACE	STANDARD IDE 40-PIN CONNECTOR		
THROUGHPUT	UP TO 150 MB/S		
SECTOR SIZE	512 BYTE		
RELIABILITY			
MTBF (HOURS) <sup>2</sup>	2 MILLION HOURS	1 MILLION HOURS	1 MILLION HOURS
DATA RETENTION	10 YEARS <sup>3</sup>	8 YEARS	1 YEAR <sup>4</sup>
ENDURANCE (100GB SSD)	350 TBW	250 TBW	70 TBW
POWER			
VOLTAGE	+5V ± 5%		
WATTS (IDLE)	0.5 W		
WATTS (ACTIVE)	2 W MAX		
ENVIRONMENTAL			
OPERATING TEMP.	0°C to 70°C		
STORAGE TEMP.	-45°C to 90°C		
EXTENDED OPERATING TEMP. <sup>5</sup>	-40°C to 85°C	-25°C to 85°C	-25°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		
PHYSICAL			
FORM FACTOR	3.5" DRIVE		
WEIGHT	15 OZ MAX (420 G)		
DIMENSIONS	4.0", 5.75" & 1.0"		
NOTES			
<p>(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</p>			

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