

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- - - - -

NAND FLASH TYPE	
SLC	SINGLE LEVEL CELL
MLC	MULTI LEVEL CELL
CAPACITY	
MLC	CAPACITIES UP TO 512 GB
SLC	CAPACITIES 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-35IDE-SLC-64GB-UR-X-R
RRT-35IDE-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	(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. 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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