



# RRT-35IDE-DUAL 3.5" IDE/ATA/PATA Drive with 2 Solid State Drives (SSDs)

**3.5" IDE/ATA/PATA DRIVE WITH 2 SOLID STATE DRIVES (SSDs)** is 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. Two SSDs are accessed as primary and secondary SSDs in one 3.5" drive unit.

- 2 SSDs in one 3.5" IDE/ATA/PATA unit as primary/secondary
- ATA/ATAPI7
- Transfer rates up to 150 MB/s
- Capacities up to 960GB (480GB per drive)
- 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

## 3.5" IDE/ATA/PATA Drive with 2 Solid State Drives

RRT-IDE-DUAL- **Primary SSD** - SLC - 60GB - **Secondary SSD** - SLC - 60GB - UR - X

### Requirements: Primary SSD

NAND Flash Type	
SLC	Single Level Cell
MLC	Multi Level Cell

Capacity	
0GB - 60GB	SLC
60GB - 240GB	MLC

### Requirements: Secondary SSD

NAND Flash Type	
SLC	Single Level Cell
MLC	Multi Level Cell

Capacity	
0GB - 60GB	SLC
60GB - 240GB	MLC

### Options May be left blank

Conformal Coating	
UR	Polyurethane
AR	Acrylic

Extended Temperature Range	
X	-40°C to 85°C

### ORDER EXAMPLES

RRT-35IDE-SLC-60GB-SLC-30GB-UR-X  
RRT-35IDE-MLC-120GB-MLC-120GB  
RRT-35IDE-SLC-30GB-SLC-60GB

# Product Specifications

## 3.5" IDE/ATA/PATA DRIVE WITH 2 SOLID STATE DRIVES (SSDs)

PERFORMANCE		
NAND FLASH TYPE	SLC	MLC
CAPACITIES PRIMARY + SECONDARY <sup>1</sup>	Up to 120GB (60GB each)	Up to 480GB (240GB each)
INTERFACE	Standard IDE 40-pin connector	
THROUGHPUT	Up to 150 MB/S	
SECTOR SIZE	512 byte	
RELIABILITY		
MTBF (HOURS) <sup>2</sup>	650,000 hours	
DATA RETENTION	10 years <sup>3</sup>	1 year <sup>4</sup>
ENDURANCE (100GB SSD)	350 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	
EXTENDED OPERATING TEMP. <sup>5</sup>	-40 °C to 85 °C	
STORAGE TEMP.	-40 °C to 90 °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 (420g)	
DIMENSIONS	4.0" x 5.75" x 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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