



RRT-35SCSI-LW 3.5" SCSI 68-Pin Wide LVD Solid State Drive (SSD)

- Drop in replacement for obsolete LVD SCSI drives
- 68-pin 16-bit Wide Low Voltage Differential (LVD) Ultra 2 SCSI interface
- Built-in debug monitor for diagnostics and updates to firmware
- Transfer rates up to 80 MB/s
- Capacities up to 1TB
- Military secure erase options
- Extended temperature option
- Rugged versions available
- Optional onboard SCSI termination
- SCSI ID selection 0 - 15
- RoHS compliant
- US-Based Engineering and Manufacturing
- In-house Technical Support



THE 3.5" SCSI 68-PIN WIDE LVD SOLID STATE DRIVE (SSD) uses a proprietary FPGA-based design that provides a long-term solution for replacement of obsolete SCSI drives.

68-pin Interface



3.5" SCSI

RRT-35SCSI-LW- **MLC** - **120GB** - **UR** - **X** - **SE1**

Requirements

Disk Type

HDD	Hard Disk Drive
SLC	Single Level Cell NAND FLASH SSD
MLC	Multi Level Cell NAND FLASH SSD
TLC	3D NAND FLASH SSD

Capacity

Up to 1TB	For HDD
Up to 240GB	For SLC
Up to 1TB	For MLC
Up to 960GB	For TLC

Options May be left blank

Conformal Coating

UR	Polyurethane
AR	Acrylic

Extended Temperature Range

X	-40°C to 85°C
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Erase Types

FE	Fast Erase
SE1	NSA/CSS Manual 9-12 Erase
SE2	RCC-TG IRIG 106-07 Chapter 10 Erase

ORDER EXAMPLES

RRT-35SCSI-LW-MLC-120GB-UR-X-SE1
RRT-35SCSI-LW-SLC-240GB

Product Specifications

3.5" SCSI 68-PIN WIDE LVD SSD

PERFORMANCE					
VERSION	HDD	SSD: TLC	SSD: MLC	SSD: MLC-X	SSD: SLC
CAPACITIES ¹	Up to 1TB	Up to 960GB	Up to 1TB		Up to 240GB
INTERFACE	16-bit Wide LVD (Low Voltage Differential) Ultra (Fast-20), Ultra 2 (Fast-40)				
THROUGHPUT - SUSTAINED	60 MB/S				
SECTOR SIZE	512 bytes				
RELIABILITY					
MTBF - DRIVE (HOURS) ²	500,000 hours	1 million hours	2 million hours		3 million hours
ENDURANCE (100GB SSD) TOTAL BYTES WRITTEN	Not applicable	70 TBW			350 TBW
DATA RETENTION	Not applicable	1 year ³			10 years ⁴
POWER					
VOLTAGE	+5V +/- 5%				
WATTS (IDLE)	1 W	1.2 W	3.5 W		1 W
WATTS (ACTIVE)	2.5 W	4 W	10 W		2.5 W
ENVIRONMENTAL					
OPERATING TEMP.	5 °C to 55 °C	0 °C to 60 °C	0 °C to 70 °C	See MLC	0 °C to 70 °C
EXTENDED OPERATING TEMP. ⁵	Not available		See MLC-X	-40 °C to 85 °C	
STORAGE TEMP.	-40 °C to 70 °C	-40 °C to 85 °C			
ALTITUDE ⁶	10,000 ft. (3,000 meters)			80,000 ft. (24,000 meters)	
RELATIVE HUMIDITY ⁷	5% to 95% non-condensing				
SHOCK ⁸	150g 2ms			1000g 0.5ms	
VIBRATION ⁹	1g 5Hz to 500 Hz			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" (101.6mm x 146.1mm x 25.4mm)				
NOTES					
(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) MLC	10 years at 0% TBW ramping down to 1 year at 100% TBW				
(4) SLC	10 years at 10% 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) Altitude qualification	MIL-STD-810F, Method 500, Procedure I				
(7) Relative Humidity qualification	MIL-STD-810F, Method 507				
(8) Shock qualification	MIL-STD-810F, Method 516, Procedure I, terminal peak saw tooth				
(9) Vibration qualification	MIL-STD-810F, Method 514, Procedure I				



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