



RRT-35SCSI-SN 3.5" SCSI 50-Pin Narrow Solid State Drive (SSD)

- Drop in replacement for obsolete SCSI drives
- 50-pin Narrow 8-bit Single Ended (SE) Ultra SCSI interface
- Built-in debug monitor for diagnostics and updates to firmware
- Transfer rates up to 20 MB/s
- Capacities up to 1TB
- Military secure erase options
- Extended temperature option
- Rugged versions available
- SCSI termination can be enabled within unit
- SCSI ID selection 0 - 7
- RoHS compliant
- US-Based Engineering and Manufacturing
- In-house Technical Support



THE 3.5" SCSI 50-PIN NARROW SOLID STATE DRIVE (SSD) uses a proprietary FPGA-based design that provides a long-term solution for replacement of obsolete SCSI drives.

50-pin Narrow Interface



3.5" SCSI

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



Product Specifications

3.5" SCSI 50-PIN NARROW SSD

PERFORMANCE				
VERSION	HDD	SSD - TLC	SSD - MLC	SSD - SLC
CAPACITIES ¹	Up to 1TB	Up to 960GB	Up to 1TB	Up to 240GB
INTERFACE	Narrow 8-bit Single Ended (SE), SCSI-1, SCSI-2 (Fast), Ultra (Fast-20)			
THROUGHPUT - SUSTAINED	19MB/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	
EXTENDED OPERATING TEMP. ⁵	Not available		-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)	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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