



# 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 16TB
- 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



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## 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

1TB - 5TB	For HDD
7GB - 240GB	For SLC
60GB - 16TB	For MLC
120GB - 8TB	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-4.3GB



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# Product Specifications

## 3.5" SCSI 50-PIN NARROW SSD

PERFORMANCE				
VERSION	HDD	SSD - TLC	SSD - MLC	SSD - SLC
CAPACITIES <sup>1</sup>	Up to 5TB	Up to 8TB	Up to 16TB	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) <sup>2</sup>	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 <sup>3</sup>		10 years <sup>4</sup>
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. <sup>5</sup>	Not available		-40 °C to 85 °C	
STORAGE TEMP.	-40 °C to 70 °C	-40 °C to 85 °C		
ALTITUDE <sup>6</sup>	10,000 ft. (3,000 meters)		80,000 ft. (24,000 meters)	80,000 ft. (24,000 meters)
RELATIVE HUMIDITY <sup>7</sup>	5% to 95% non-condensing			
SHOCK <sup>8</sup>	150g 2ms		1000g 0.5ms	
VIBRATION <sup>9</sup>	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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