

2.5" SCSI 50-Pin Narrow Solid State Drive



RRT-25SCSI-SN

The 2.5" SCSI 50-pin Narrow Solid State Drive (SSD) is a proprietary FPGA based design that provides a long-term solution for replacement of obsolete SCSI drives.

The design provides a transparent interface from the SCSI bus to a COTS CompactFlash.

Custom firmware provided for SCSI systems that require specific SCSI command responses, capacities, or sector sizes. A built-in debug monitor can be used to diagnose issues and update firmware.

FEATURES INCLUDE

- Drop-in replacement for obsolete 50-pin Narrow SCSI drives
- Solid State technology
- Standard 2.5" form factor
- Capacities currently up to 240GB
- Ultra SCSI transfer rates up to 20 MB/s
- Single Ended (SE) interface
- Commercial and extended temperature versions available
- Rugged version available for high shock & vibration environments
- Options for discrete controlled secure erase
- Compatible with CPUs with a SCSI SE controller
- SCSI termination can be enabled within unit
- No additional software required
- SCSI ID selection 0 – 7

Ordering Information

RRT-25SCSI-SN - **SLC** - **120GB** - **UR** - **X** - **R**

Requirements

NAND FLASH Type

SLC Single Level Cell
MLC Multi Level Cell

Capacity

Any capacity up to 240GB

Options May be left blank

Conformal Coating

UR Polyurethane
AR Acrylic

Extended Temperature Range

X -40°C to 80°C

Shock/Vibration

R Rugged version with extended shock/vibration specifications

Example: RRT-25SCSI-SN-SLC-512MB

Example: RRT-25SCSI-SN-MLC-120GB -UR-X-R

Example: RRT-25SCSI-SN-SLC- 4.3GB

2.5" SCSI 50-pin Narrow SSD

Performance		
Version	SLC	MLC
Capacities (1)	Up to 60GB	Up to 240GB
NAND FLASH Type	SLC	MLC
Interface	Narrow 8-bit Single Ended (SE) Ultra SCSI, SCSI2, SCSI1	
Sustained Throughput Read/Write	19 MB/s	
Sector Size	512 native, custom sector sizes available	
Reliability		
MTBF-Drive (in hours)(2)	2 million	1 million
Endurance (100GB SSD) Total Bytes Written	350TB	70TB
Power		
Voltage	+5V +/- 5%	
Watts-idle	3W	
Watts-active	4W max	
Environmental		
Temperature operating	0° to 70°C	
Temperature storage	-40° to 85°C	
Extended Temperature operating	-40° to 85°C	
Relative Humidity	5% to 95%	
Altitude	80,000 ft (24,000 meters)	
Shock	50g 11 millisecond	
Shock - Rugged	1500g 0.5 millisecond	
Vibration	12.0 Grms 20 Hz to 2000 Hz	
Vibration - Rugged	16.3 Grms 20 Hz to 2000 Hz	
Physical		
Form Factor	2.5" drive	
Weight	3 oz. max (84.2g)	
Dimensions (W x L x H)	2.8" x 3.9" x 0.5" (70.0mm x 100.0mm x 12.5mm)	
(1) Larger capacities available as new COTS Compact Flash released		
(2) Telcordia SR-322, Issue 3, operating temp (40° C), electrical stress (50%), environmental factor (1.0)		

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