

# 3.5" SCSI SCA 80-Pin Wide LVD Hard Disk Drive



## RRT-35SHS-LC

The 3.5" SCSI SCA 80-pin Wide LVD (Low Voltage Differential) Hard Disk Drive (HDD) 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 2.5" SATA HDD.

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 80-pin Wide LVD SCSI drives
- Standard 3.5" form factor
- Capacities currently up to 1.5TB
- Ultra SCSI transfer rates up to 40 MB/s
- Low Voltage Differential (LVD) interface
- Compatible with CPUs with a SCSI LVD controller
- SCSI termination can be enabled within unit
- No additional software required
- SCSI ID selection 0 – 15

# Ordering Information

**RRT-35SHS-LC** - **HDD** - **120GB** - **SECTORSIZE1024**

## Requirements

### Hard Drive

HDD: Standard  
eHDD: Enterprise Class

### Capacity

Capacities up to 1.5TB

## Options MAY BE LEFT BLANK

**Sector Size** (512 byte  
default sector size)

Example: RRT-35SHS-LC-HDD-320GB

Example: RRT-35SHS-LC-HDD-512MB-SECTORSIZE768

# 3.5" SCSI SCA 80-pin Wide LVD Specifications

Performance		
Version	HDD	eHDD
Capacities (1)	Up to 1.5TB	
Interface	Wide 16-bit LVD Ultra SCSI, SCSI2, SCSI1	
Sustained Throughput Read/Write	38 MB/s	
Sector Size	512 native, custom sector sizes available	
Reliability		
MTBF	500,000 hours	1.4 million hours
Power		
Voltage	-5V +/- 5%	-5V +/- 5% +12V +/- 5%
Watts-idle	4W	6W
Watts-active	7W max	9W max
Environmental		
Temperature operating	5° to 55°C	
Temperature storage	-40° to 70°C	
Relative Humidity	5% to 95%	
Altitude	10,000 ft (3,000 meters)	
Shock	350g 2 millisecond	40g 2 millisecond
Vibration	1.0G (0 to peak) 5Hz to 500Hz	0.5G (0 to peak) 5Hz to 500Hz
Physical		
Form Factor	3.5" drive	
Weight	15 oz. max (420g)	
Dimensions (W x L x H)	4.0" x 5.9" x 1.6" (101.6mm x 149.9mm x 40.6mm)	
(1) Larger capacities available as new COTS 2.5" drives released.		

Red Rock Technologies, Inc. reserves the right to modify, change or discontinue specific products within its product line at its own discretion. Red Rock Technologies, Inc. does not assume any liability resulting from the application or use of its products. The information contained herein has been checked and is believed to be entirely accurate, however, no responsibility is assumed for inaccuracies.

"Red Rock Technologies" and the mountain logo are registered trademarks of Red Rock Technologies, Inc.

© Copyright 2018 Red Rock Technologies, Inc. All rights reserved. (Rev. 11/21/2017)

206 West Julie Drive - Suite 2, Tempe, AZ 85283 | United States of America

Tel: 480-483-3777 | Toll Free: 1-800-808-7837

www.redrocktech.com | info@redrocktech.com

© Copyright 2018 Red Rock Technologies, Inc.

