

# 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-L** - **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 HDD 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.

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