

# 3.5" SCSI 50-Pin Narrow With Removable CFast

## RRT-35SFS-SN-R-CFast

The 3.5" 50-pin SCSI Narrow with removable CFast is a proprietary FPGA based design that provides a long term solution for replacement of obsolete SCSI floppy, tape (DAT), magneto optical (MO), CD, DVD and PC card drives.

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

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
- Hot-swap Removable CFast
- Standard 3.5" form factor
- Capacities currently up to 120GB
- Ultra SCSI transfer rates up to 20 MB/s
- Single Ended (SE) interface
- Emulations for SCSI floppy, SCSI Magneto Optical (MO), SCSI DAT Tape, SCSI CD, SCSI DVD and SCSI PC Card
- Commercial and extended temperature versions available
- 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-35SFS-SN-R-CFast - FLOPPY - UR - X - SECTORSIZE1024**

Options May be left blank

**Emulation**

Floppy  
MO - Magneto Optical  
DAT - Tape Drive  
CD - CD drive  
DVD - DVD Drive

**Conformal Coating**

UR - polyurethane  
AR - acrylic

**Extended Temperature Range**

X - -40°C to 85°C

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

256, 768, 1024, or any value

Example: RRT-35SFS-SN-R-CFast-UR-X-SECTORSIZE256  
Example: RRT-35SFS-SN-R-CFast-FLOPPY

## Performance

Interface	Narrow 8-bit Single Ended (SE) Ultra SCSI, SCSI2, SCSI1
Sustained Throughput Read/Write	19 MB/s
Sector Size	512 bytes or custom sector size

## Reliability

MTBF (1)	3 million hours
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## 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 (2)	-40° to 85°C
Relative Humidity (3)	5% to 95%
Altitude (4)	80,000 ft (24,000 meters)
Shock (5)	50g 11 millisecond
Vibration (6)	12.0 Grms 20 Hz to 2000 Hz

## Physical

Form Factor	3.5" drive
Weight	10.85oz. max (307.6g)
Dimensions (W x L x H)	4" (101.6mm) X 6.6" (167.6mm) with retainer, 6" (152.4mm) (without retainer) X 1" (25.4mm)

(1) Telcordia SR-322, Issue 3, operating temp (40° C), electrical stress (50%), environmental factor (1.0)

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