- Drop in replacement for obsolete SCSI drives
- 80-pin Wide 16-bit Single-Ended (SE) Ultra SCSI interface
- Built-in debug monitor for diagnostics and updates to firmware
- Transfer rates up to 40 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 - 15
- RoHS compliant
- US-Based Engineering and Manufacturing
- In-house Technical Support

THE 3.5" SCSI 80-PIN WIDE SOLID STATE DRIVE (SSD) uses a proprietary FPGA-based design that provides a long-term solution for replacement of obsolete SCSI drives.

80-pin Interface

3.5" SCSI

RRT-35SCSI-SC- 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	-40ºC to 85ºC

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-SC-MLC-120GB-UR-X-SE1
RRT-35SCSI-SC-SLC-4.3GB

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+31(0)10 741 00 28

3.5" SCSI 80-PIN WIDE SSD

PERFORMANCE					
VERSION	HDD	SSD: TLC	SSD: MLC	SSD: MLC-X	SSD: SLC
CAPACITIES[1]	Up to 5TB	Up to 8TB	Up to 16TB		Up to 240GB
INTERFACE	SCA Wide 16-bit Single Ended (SE), Ultra (Fast-20) Ultra (Fast-40)				
THROUGHPUT - SUSTAINED	38 MB/S				
SECTOR SIZE	512 bytes				

RELIABILITY				
MTBF - DRIVE (HOURS)[2]	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[3]		10 years[4]

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	See MLC	0°C to 70°C
EXTENDED OPERATING TEMP.[5]	Not available		See MLC-X	-40°C to 85°C	
STORAGE TEMP.	-40°C to 70°C	-40°C to 85°C			
ALTITUDE[6]	10,000 ft. (3,000 meters)			80,000 ft. (24,000 meters)	
RELATIVE HUMIDITY[7]	5% to 95% non-condensing				
SHOCK[8]	150g 2ms			1000g 0.5ms	
VIBRATION[9]	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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