



RRT-525USB-R-DM-NVME 5.25" USB Enclosure for 2 Removable NVME SSD Modules

THE 5.25" USB ENCLOSURE FOR 2 REMOVABLE NVME SSD MODULES is for applications that require the frequent removal of SSD, fast transfer rates and large capacities.

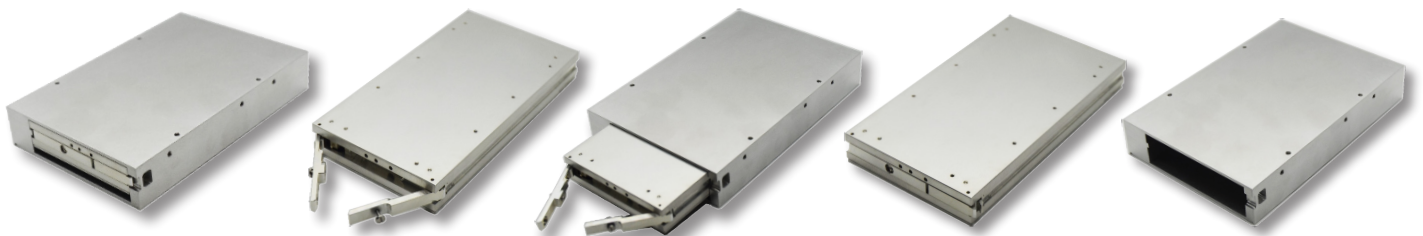
It consists of two components; the 5.25" enclosure with USB3 interface that has USB to PCIe adapter chipset and the removable NVMe SSD modules. The connectors between the SSD modules and the enclosure are rated for 100,000 mating cycles to support frequent insertions and removals.

The NVMe SSD module can use any COTS NVMe Solid State Drive (SSD), providing capacities up to 16TB and transfer rates of up to 500 MB/S. Options for FIPS140-2, FIPS197, TCG opal, and military erase secure.

- Capacities up to 16 TB
- 500 MB/S Transfer rates
- Removable SSD module
- USB3 Interface
- 100,000 mating cycles
- 5.25" form factor
- Boot and/or disk storage
- COTS NVMe SSDs
- Military erase options
- FIPS140-2, FIPS197, TCG Opal options
- Option for thumbscrews to remove drive module without tools



EASILY REMOVE SSD DRIVE MODULE



Ordering Information

5.25" USB Enclosure

RRT-525USB-R-DM-NVME- **UR** - **X**

Options May be left blank

Conformal Coating

UR Polyurethane
AR Acrylic

Extended Temperature Range

X -40°C to 85°C

ORDER EXAMPLES

RRT-525USB-R-DM-NVME
RRT-525USB-R-DM-NVME-UR-X

Removable NVMe SSD Drive Module

RRT-DM-NVME- **pSLC** - **4TB** - **UR** - **X** - **FE** - **TS**

Requirements

NAND Flash Type

TLC 3D NAND
MLC Multi Level Cell
pSLC Pseudo Single Level Cell

Capacity

500GB - 15.3TB For TLC
500GB - 8TB For TLC-X
1TB - 16TB For MLC
1TB - 8TB For pSLC

ORDER EXAMPLES

RRT-DM-NVMe-TLC-15.3TB-TS
RRT-DM-NVMe-TLC-3840GB-UR-X-SE1
RRT-DM-NVMe-MLC-16TB-FIPS197
RRT-DM-NVMe-pSLC-1TB-UR-X-SE1

Options May be left blank

No Tools

TS Thumbscrews

Security

FE Fast Erase
SE1 NSA/CSS Manual 9-12 Erase
SE2 RCC-TG IRIG 106-107 Chapter 10 Erase
OPAL TCG Opal Compliant SSD
FIPS140-2 FIPS 140-2 Compliant SSD
FIPS197 FIPS 197 Compliant SSD

Extended Temperature Range

X -40°C to 85°C

Conformal Coating

UR Polyurethane
AR Acrylic

Product Specifications

5.25" USB ENCLOSURE FOR REMOVABLE NVME SSD MODULES

PERFORMANCE				
NAND FLASH TYPE	TLC	MLC	pSLC	TLC-X
CAPACITIES ¹	Up to 15.3TB	Up to 16TB	Up to 4TB	Up to 8TB
INTERFACE ²	USB3			
THROUGHPUT - SUSTAINED	500MB/S			
RELIABILITY				
MTBF - DRIVE	1 million hours		2 million hours	
MTBF - 3.5" ENCLOSURE ³	3 million hours			
DATA RETENTION	1 year		5 years	1 year
ENDURANCE (100GB) TOTAL BYTES WRITTEN	70 TBW		250 TBW	70 TBW
ENDURANCE RATING ⁴	5 years			
CARRIER/DRIVE MODULE MATING CYCLES	100,000 mating cycles			
POWER				
VOLTAGE	12V +/- 5%, +5V +/- 5%			
WATTS IDLE (12V/5V)	2.5W/5W	2.5W/3W		
WATTS ACTIVE (12V/5V)	20W/7W	10W/7W		
ENVIRONMENTAL				
OPERATING TEMP.	0°C to 55°C		0°C to 60°C	See TLC
EXTENDED OPERATING TEMP.	See TLC-X	Not available	-40°C to 85°C	
STORAGE TEMP.	-40°C to 85°C			
ALTITUDE	10,000 ft. (3,000 meters)		80,000 ft. (24,000 meters)	
RELATIVE HUMIDITY	5% to 95%			
SHOCK	20g, 11 millisecond terminal sawtooth pulse			
VIBRATION	0.04 g ² /Hz, 5 Hz to 100 Hz			
PHYSICAL				
FORM FACTOR	5.25"			
WEIGHT	30 oz. (849g)			
DIMENSIONS	4.0" x 5.75" x 1.625"(101.6mm x 146.1mm x 41.3mm)			
NOTES				
(1) Larger capacities available as new COTS U.2 NVMe drives released				
(2) Interface connected via compatible slot profile SLT3-PAY-1F1U1S1S1U1U2F1H-14.6.11 OR SLT3-PER-1F-14.3.2				
(3) Telcordia SR-332, issue 3, operating temp (40C), electrical stress (50%), environmental factor (1.0)				
(4) Based on JESD218 standard with 4KB random write workload				



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