

# RRT-35NVMe-R 3.5" NVMe Enclosure with Removable Module

THE 3.5" NVME ENCLOSURE WITH REMOVABLE SSD MODULE is for applications that require the frequent removal of SSD, fast transfer rates and large capacities.

It consists of two components; the 3.5" NVMe enclosure with PCIe Gen 3x4 interface that has standard 3.5" mounting holes and removable NVMe SSD module. The connectors between the drive module 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 15TB and transfer rates of up to 7,877 MB/S. Options for FIPS140-2, FIPS197, TCG opal, and military erase secure.

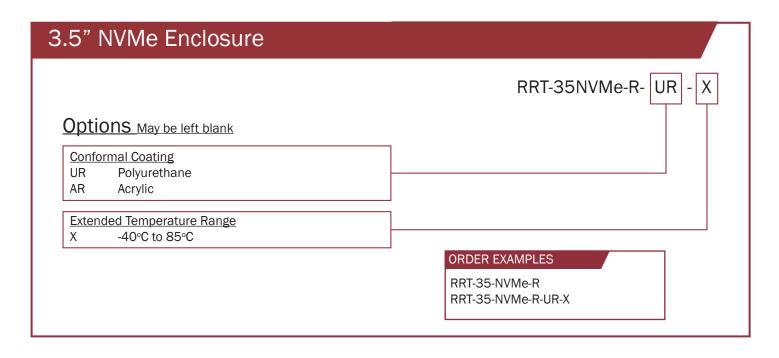
- Capacities up to 16 TB
- 7,877 MB/S Transfer rates
- · Removable SSD module
- PCle Gen 3x4 interface
- 100,000 mating cycles
- 3.5" form factor
- Boot and/or disk storage
- COTS NVMe SSDs
- Military erase options
- FIPS140-2, FIPS197, TCG Opal options
- Option for thumbscrews to remove drive module without tools
- VxWorks. Linux and

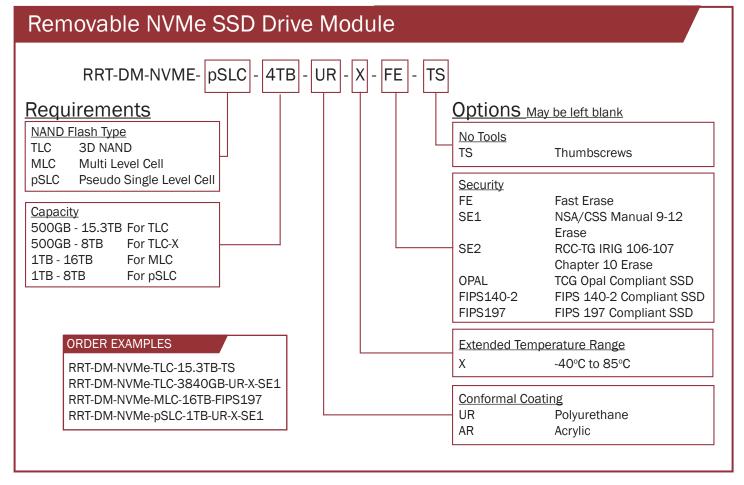




(480) - 483 - 3777

## Ordering Information







Parhelia B.V. www.parheliabv.com ①+31(0)10 741 00 28







### **Product Specifications**

#### 3.5" NVME ENCLOSURE WITH REMOVABLE MODULE

PERFORMANCE				
NAND FLASH TYPE	TLC	MLC	pSLC	TLC-X
CAPACITIES <sup>1</sup>	Up to 15.3TB	Up to 16TB	Up to 4TB	Up to 8TB
INTERFACE <sup>2</sup>	PCIe Gen 3/4 x4	PCle Gen 2 x 4		PCle Gen 3 x4
THROUGHPUT - SUSTAINED	3500MB/S (Gen3), 5000MB/S (Gen4)	800 MB/S	1000 MB/S	1500MB/S
RELIABILITY				
MTBF - DRIVE	1 million hours		2 million hours	
MTBF - 3.5" ENCLOSURE <sup>3</sup>	3 million hours			
DATA RETENTION	1 year		5 years	1 year
ENDURANCE (100GB) TOTAL BYTES WRITTEN	70 TBW		250 TBW	70 TBW
ENDURANCE RATING <sup>4</sup>	5 years			
CARRIER/DRIVE MODULE MATING CYCLES	100,000 mating cycles			
POWER				
VOLTAGE	12V +/- 5%, +5V +/- 5%			
WATTS (IDLE)	7 W	1.5 W		
WATTS (ACTIVE)	20 W	10 W		
ENVIRONMENTAL				
OPERATING TEMP., VITA 47 CLASS <sup>5</sup>	0° C to 55° C		0°C to 60°C	See TLC
EXT. OPERATING TEMP., VITA 47 CLASS <sup>5</sup>	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, VITA 47 CLASS <sup>6</sup>	20g, 11 millisecond terminal sawtooth pulse		40g, 11 millisecond terminal sawtooth pulse	
VIBRATION, VITA 47 CLASS <sup>7</sup>	0.04 g2/Hz, 5 Hz to 100 Hz		0.1 g2/Hz, 100 Hz to 1000 Hz	
PHYSICAL				
FORM FACTOR	3.5"			
WEIGHT	30 oz. (849g)			
PITCH	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
- (5) Thermal qualification per MIL-STD-810F, Method 501 Procedure II, and MIL-STD-810F, Method 502, Procedure II
- (6) Shock qualification per MIL-STD-810F, Method 516, Procedure I
- (7) Vibration qualification per MIL-STD-810F, Method 514, Procedure I



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