

		Winstars Product Specifications		Version		V1.2			
				Page		1/1			
		Model		WS-UTE01		Date		2018-03-27	
		Name		Thunderbolt 3 to NVMe SSD Classic		Writer		Chen	
Picture 图片				Features: 特点					
				1. Small and portable storage, aluminum design providing NVMe SSD giving maximum theoretical speed up to 3,940 MB/s					
				2. Thunderbolt™ 3 provides speed up to 40Gbps, allows NVMe SSDs to achieve peak performance, 6-7 times the sequential read/write speeds of SATA.					
				3. Heat sink integrated giving the best ventilation for NVMe SSD running at high speed.					
				4. Enclosure followed with 0.5m Thunderbolt 3 pigtail cable (Intel Certified) ensure NVMe SSD best performance					
				5. Plug-and-play connection, no installation need.					
Title 标题									
Type-C Thunderbolt 3 to NVMe SSD Classic									
Description 介绍				Package content 标配		SYSTEM REQUIREMENT: 系统配置			
Winstars Thunderbolt™ 3 NVMe SSD Enclosure is designed with unique aluminum chassis and user-friendly installation. It provides data transfer speed up to 6-7 times faster than SATA due to its NVMe spec (PCIe Gen3 x4 lanes), and can transfer a 4K movie within seconds. The product is popular among Thunderbolt™ 3 systems users, Macbook enthusiasts for example. It is also a great solution for gamers to load and boost game in a blink				1 x Thunderbolt 3 to NVMe SSD Classic User Manual		1. Only compatible with Thunderbolt™ 3 computers 2. Compatibility with Windows and MacOS			
Specification 规格									
Hardware 硬件		Functions 功能				Exterior 外观			
Ports	Thunderbolt 3 Type-C , M-Key NVMe connector	Working Standards	Laptop or Dssktop with Thunderbolt 3 hardware system	Color		Apple Gray			
Button	NIL								
LED	Blue								
Chipset	JHL6540 / TPS65983 / Si52112	Operating System Support	Microsoft Windows & Mac OS						
Flash	W25Q80DV 8Mbit								
Power Management	NIL								
Power Supply	NIL	Max. Speed		Maximum theoretical speed 3,940 MB/s, Normally Sequential Read 2500MB/s / Write 1000MB/s					
Power Plug	NIL								
Power Consumption	< 7 Watt								
Rated Volt / Current	5 Volt, <1.5A								
Dimensions 尺寸		Certification 证书							
Unit Dimensions	142mm(L) x 34mm(W) x 15mm(H)	Intel	Thunderbolt 3 Cert.						
Weight	135g	Apple	Thunderbolt 3 Cert.						
Housing Material	Aluminum	CE-EMC	Design in but Cert. by request						
Shell color	Apply Gray	FCC DOC	Design in but Cert. by request						
Package Dimensions		ROHS	Design in but Cert. by request						
Environmental 环境		Reach	Design in but Cert. by request						
Operating Temperature	0°C~40°C	3C	Design in but Cert. by request						
Storage Temperature	-10~70°C								
Relative Humidity(Operational)	10%~90%,noncondensing	Others 其他							
Relative Humidity(Storage)	10%~90%,noncondensing	Method	See Manual						
Drop test (1 Meters)	5 st	Performance	See Test Report						
Cycle work (hours)	24H	Reliability	See Test Report						



SAMSUNG

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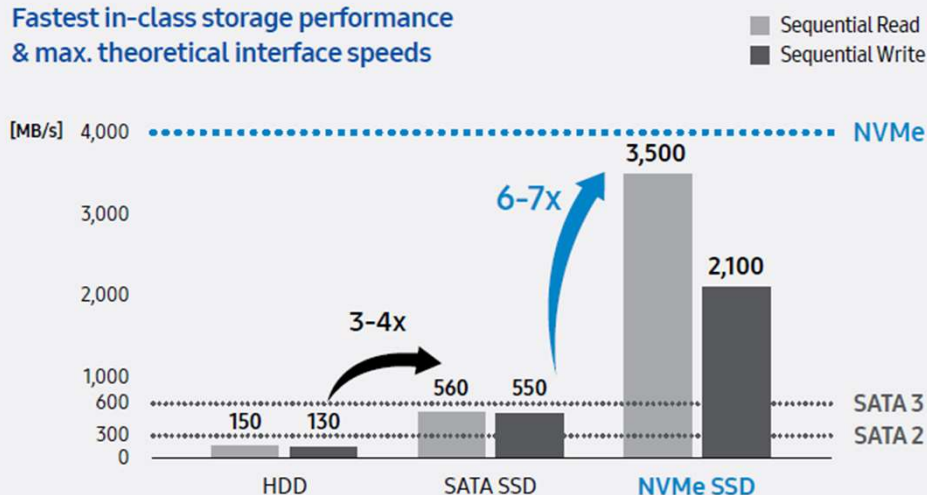
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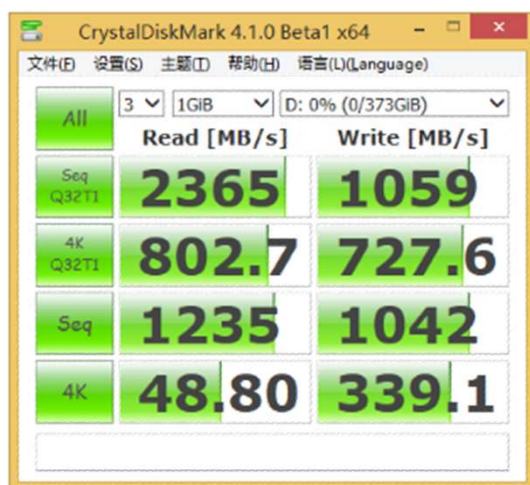


Seagate Nytro XF1440 and XM1440

Drive	Endurance Optimized	Capacity Optimized
Usable capacity	400 GB, 800 GB, 1600 GB (XF1440 only)	480 GB, 960 GB, 1920 GB
Interface	PCIe 3.0 x4 2.5" U.2 (XF1440) PCIe 3.0 x4 M.2 22110 (XM1440)	
Sequential read	up to 2500 MB/s	
Sequential write	up to 900 MB/s	
Random read IOPS	up to 240K	
Random write IOPS	up to 40K	up to 15K
Write endurance	3 DWPD	0.3 DWPD
Warranty	5 years	
Peak power	12.5 W (XF1440), 8.25 W (XM1440)	
Average read/write power	9 W (XF1440), 7W (XM1440)	



NVMe还支持同一时间从多核处理器接受命令和优先处理请求，这个特性在企业级的重负载时优势就会显露出来。



低延时和良好的并行性的优势就是可以让SSD的随机性能得到大幅度提升，我们测试过的Intel 750就是一块NVMe SSD，它的随机性能表现绝对是一流的，在任何队列深度下都能发挥出极佳的速度。