



NVMe Solid State Drives (SSDs)

Netlist's 3 rd Generation SSDs	1962 Series		1563 Series	
	2.5" U.2		2.5" U.2	HHHL
SSD Operation	High Performance		High Performance / Cost Effective Mix	
NAND	96 Layer 3D TLC		176 Layer 3D TLC	
Interface	PCIe Gen4 x4		PCIe Gen4 x4	PCIe Gen4 x4
Capacity (TB)	3.2 / 3.84 6.4 / 7.68 12.8 / 15.36		1.6 / 1.92 3.2 / 3.84 6.4 / 7.68	
Endurance for 5 years	1 3 DWPD ^[1]		1 3 DWPD ^[1]	
Sequential Read (up to)	7.0 GB/s 7.0 GB/s		6.8 GB/s	6.8 GB/s
Sequential Write (up to)	5.7 GB/s 5.8 GB/s		4.8 GB/s	4.8 GB/s
Random Read (up to)	1.6M IOPS 1.6M IOPS		1100K IOPS	1100K IOPS
Random Write (up to)	310K IOPS 500K IOPS		420K IOPS	230K IOPS
Latency Read/Write (µs)	78µs / 11µs 78µs / 11µs		72µs / 11µs	72µs / 11µs
Power Loss Protection	Yes			
Power Consumption (Active / Idle)	18W / 9W 18W / 9W		10W / 5W	10W / 5W
UBER / MTBF	1 in 10 ¹⁷ / 2 million hours			
Security	AES-256 Data Encryption, Crypto Erase, TCG Opal (1563), T10 Protection Information (PI)			

Netlist's 2 nd Generation SSDs	1552 Series		1952 Series		
	2.5" U.2 HHHH		M.2	2.5" U.2	HHHL
SSD Operation	Low Power		High Performance	High Performance	
NAND	96 Layer 3D TLC				
Interface	PCIe Gen3 x4		PCIe Gen3 x4	PCIe Gen3 x4	PCIe Gen3 x8
Capacity (TB)	1.6 / 1.92 3.2 / 3.84		.4 / .480 .8 / .960 1.6 / 1.92 3.2 / 3.84	3.2 / 3.84 6.4 / 7.68	
Endurance for 5 years	1 3 DWPD ^[1]			1 3 DWPD ^[1]	
Sequential Read (up to)	3.3 GB/s 3.3 GB/s		3.0 GB/s	3.5 GB/s	6.0 GB/s
Sequential Write (up to)	1.7 GB/s 1.9 GB/s		1.5 GB/s	3.1 GB/s	3.8 GB/s
Random Read (up to)	520K IOPS 520K IOPS		440K IOPS	840K IOPS	1000K IOPS
Random Write (up to)	135K IOPS 135K IOPS		150K IOPS	300K IOPS	300K IOPS
Latency Read/Write (µs)	85 / 15µs 85 / 15µs		90µs / 15µs	90µs / 10µs	87µs / 12µs
Power Loss Protection	Yes				
Power Consumption (Active / Idle)	9W / 4W 9W / 4W		7W / 2W	12W / 7W	14W / 7W
UBER / MTBF	1 in 10 ¹⁷ / 2.1 million hours				
Security	TCG Opal (1952 Series), Self-Encrypting Drive (SED), AES-256 Data Encryption, T10 Protection Information (PI), Crypto Erase				

[1] Customizable up to 9 DWPD



Ordering Information

Segment	PLP	Form Factor	Series	DWPD	Capacity	Part Number
Enterprise	Yes	2.5" U.2 (15 mm) (High Performance)	N1962 D2	1	3.84TB	NS1962UF13T8-5M1A000
					7.68TB	NS1962UF17T6-5M1A000
					15.63TB	NS1962UF115T-5M1A000
			N1962 E2	3	3.2TB	NS1962UF33T2-5M1A000
					6.4TB	NS1962UF36T4-5M1A000
					12.8TB	NS1962UF312T-5M1A000
		2.5" U.2 (15 mm) (High Performance)	N1951 D2	1	3.84TB	NS1951UF13T8-5M1A000
					7.68TB	NS1951UF17T6-5M1A000
					15.36TB	NS1951UF115T-5M1A000
		2.5" U.2 (15 mm) (High Performance)	N1951 E2	3	3.2TB	NS1951UF33T2-5M1A000
					6.4TB	NS1951UF36T4-5M1A000
					12.8TB	NS1951UF312T-5M1A000
		AIC (HHHL) (High Performance)	N1951 D3	1	3.84TB	NS1951AH13T8-5M1A000
					7.68TB	NS1951AH17T6-5M1A000
					15.36TB	NS1951AH115T-5M1A000
		AIC (HHHL) (High Performance)	N1951 E3	3	3.2TB	NS1951AH33T2-5M1A000
					6.4TB	NS1951AH36T4-5M1A000
					12.8TB	NS1951AH312T-5M1A000
		M.2 (22x80 mm) (High Performance)	N1552 D4	1	.480TB	NS1552M8148G-5M1A000
					.960TB	NS1552M810T9-5M1A000
					1.92TB	NS1552M111T9-5M1A000
		M.2 (22x110 mm) (High Performance)	N1552 E4	3	3.84TB	NS1552M113T8-5M1A000
					.400TB	NS1552M8340G-5M1A000
					.800TB	NS1552M830T8-5M1A000
		M.2 (22x110 mm) (High Performance)	N1952 D2	1	1.6TB	NS1552M131T6-5M1A000
					3.2TB	NS1552M133T2-5M1A000
					3.84TB	NS1952UF13T8-5M1A000
		2.5" U.2 (15 mm) (High Performance)	N1952 E2	3	7.68TB	NS1952UF17T6-5M1A000
					3.2TB	NS1952UF33T2-5M1A000
					6.4TB	NS1952UF36T4-5M1A000
AIC (HHHL) (High Performance)	N1952 D3	1	3.84TB	NS1952AH13T8-5M1A000		
			7.68TB	NS1952AH17T6-5M1A000		
			3.2TB	NS1952AH33T2-5M1A000		
AIC (HHHL) (High Performance)	N1952 E3	3	6.4TB	NS1952AH36T4-5M1A000		



Ordering Information

Segment	PLP	Form Factor	Series	DWPD	Capacity	Part Number
Data Center	Yes	2.5" U.2 (15 mm) (High Performance / Cost Mix)	N1563 D2	1	1.9TB	NS1563UF11T9-5M1A000
					3.84TB	NS1563UF13T8-5M1A000
					7.68TB	NS1563UF17T6-5M1A000
		2.5" U.2 (15 mm) (High Performance / Cost Mix)	N1563 E2	3	1.6TB	NS1563UF31T6-5M1A000
					3.2TB	NS1563UF33T2-5M1A000
					6.4TB	NS1563UF36T4-5M1A000
		AIC (HHHL) (High Performance / Cost Mix)	N1563 D3	1	1.9TB	NS1951UF33T2-5M1A000
					3.84TB	NS1951UF36T4-5M1A000
					7.68TB	NS1951UF312T-5M1A000
		AIC (HHHL) (High Performance / Cost Mix)	N1563 E3	3	1.6TB	NS1563AU31T6-5M1A000
					3.2TB	NS1563AU33T2-5M1A000
					6.4TB	NS1563AU36T4-5M1A000
		2.5" U.2 (7 mm) (Low Power)	N1551 D2	1	1.92TB	NS1551U711T9-5T1A000
					3.84TB	NS1551U713T8-5T1A000
		2.5" U.2 (7 mm) (Low Power)	N1551 E2	3	1.6TB	NS1551U731T6-5T1A000
					3.2TB	NS1551U733T2-5T1A000
		2.5" U.2 (15 mm) (Low Power)	N1552 D2	1	1.92TB	NS1552UF11T9-5T1A000
					3.84TB	NS1552UF13T8-5T1A000
		2.5" U.2 (15 mm) (Low Power)	N1552 E2	3	1.6TB	NS1552UF31T6-5T1A000
					3.2TB	NS1552UF33T2-5T1A000
		AIC (HHHL) (Low Power)	N1552 D3	1	1.92TB	NS1552AU11T9-5T1A000
3.84TB	NS1552AU13T8-5T1A000					
AIC (HHHL) (Low Power)	N1552 E3	3	1.6TB	NS1552AU31T6-5T1A000		
			3.2TB	NS1552AU33T2-5T1A000		





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