



Zircon

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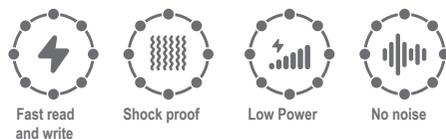
2.5" SSD

This document describes the specifications and capabilities of the Zircon® Solid-State Drive Z1 Series (Zircon® SSD Z1 Series).



Z1 Series
(128GB - 256GB - 512GB)

SPECIFICATIONS

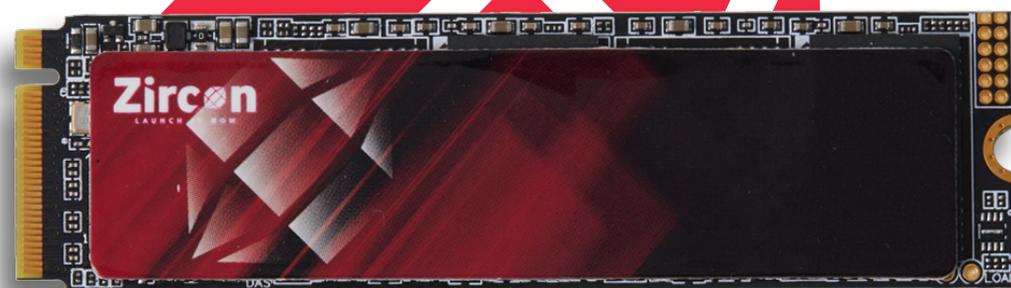


FEATURE

FORM FACTOR	Z1 SERIES
Protocol	2.5" Sata
Dimensions (L x W x H)	100MM X 70MM X 7MM
Sata Protocol	Sata III (22pin)
Available capacities	128GB / 256GB / 512GB
Sequential Read (Max*)	Up to 550MB/s
Sequential Write (Max*)	Up to 500MB/s
Max Random 4k Read	32650 IOPS
Max Random 4k Write	12150 IOPS
Cache Time	0.07ms
Warranty	Three-year warranty
Controller	MAXIOTECH
Flash Type	Micron 3D TLC
Endurance	80 TBW
MTBF	1 Million hours
Operation Temp	°0C~°70+
Storage Temp	20°C~°75+
TRIM Features	YES
SMART Features	YES
Power Consumption (Max*)	2.68W
Input Vol	5V5%±

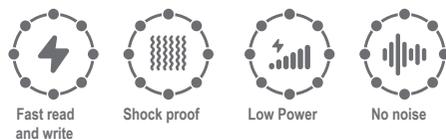
M.2 NVMe SSD

This document describes the specifications and capabilities of the Zircon® Solid-State Drive R1 Series (Zircon® SSD R1 Series).



R1 Series
(128GB - 256GB)

SPECIFICATIONS

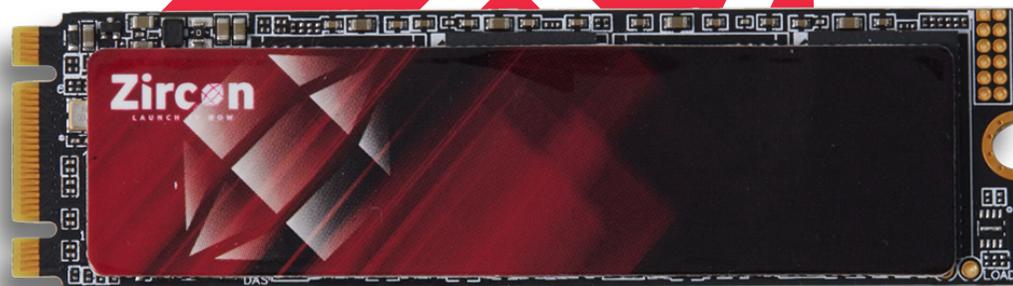


FEATURE

FORM FACTOR	Z1 SERIES
Protocol	M.2 NVMe 2280
Dimensions (L x W x H)	80MM X 22MM X 2.1MM
Interface	PCI-e Gen3x4
Available capacities	256GB / 512GB / 1TB
Sequential Read (Max*)	Up to 3400MB/s
Sequential Write (Max*)	Up to 3100MB/s
Max Random 4k Read	330000 IOPS
Max Random 4k Write	250000 IOPS
Host-Memory-Buffer (HMB)	64 MB
Warranty	Three-year warranty
Controller	MAXIOTECH
Flash Type	SanDisk 3D TLC
Endurance	768TBW / 1536 TBW
MTBF	1 Million hours
Operation Temp	°0C~°70+
Storage Temp	20°C~°75+
TRIM Features	YES
SMART Features	YES
Power Consumption (Max*)	3.4W
Input Vol	5V5%±

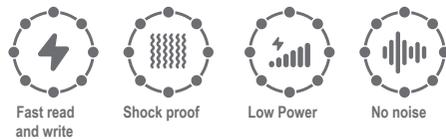
M.2 SATA SSD

This document describes the specifications and capabilities of the Zircon® Solid-State Drive I1 Series (Zircon® SSD I1 Series).



I1 Series
(128GB - 256GB - 512GB)

SPECIFICATIONS



FEATURE

FORM FACTOR	Z1 SERIES
Protocol	M.2 Sata 2280
Dimensions (L x W x H)	80MM X 22MM X 2.1MM
Interface	PCIe Gen3x2
Available capacities	128 GB / 256GB / 512GB
Sequential Read (Max*)	Up to 580 MB/s
Sequential Write (Max*)	Up to 540 MB/s
Max Random 4k Read	58000 IOPS
Max Random 4k Write	62500 IOPS
Operating Humidity	%95-%5 RH non-condensing
Warranty	Three-year warranty
Controller	MAXIOTECH
Flash Type	Micron 3D TLC
Endurance	87 TBW / 174 TBW / 352 TBW
MTBF	1 Million hours
Operation Temp	°0C~°70+
Storage Temp	20°C~°75+
TRIM Features	YES
SMART Features	YES
Power Consumption (Max*)	1.5W
Input Vol	DC 3.3V