

WD Red SA500 WDS100T1ROA - SSD - 1 TB - SATA 6Gb/s



21-01-2026

SKU	WDS100T1ROA
Product Description:	WD Red SA500 WDS100T1ROA - SSD - 1 TB - SATA 6Gb/s
Type:	Solid state drive - internal
Capacity:	1 TB
Form Factor:	2.5"
Interface:	SATA 6Gb/s
Data Transfer Rate:	600 MBps
Features:	24x7 continuous operation, 3D NAND Technology



General

Device Type:	Solid state drive - internal
Capacity:	1 TB
Form Factor:	2.5"
Interface:	SATA 6Gb/s
Features:	24x7 continuous operation, 3D NAND Technology
Width:	69.85 mm
Depth:	100.2 mm
Height:	7 mm
Weight:	37.4 g

Performance

SSD Endurance:	600 TB
Drive Transfer Rate:	600 MBps (external)
Internal Data Rate:	560 MBps (read) / 530 MBps (write)
4KB Random Read:	95000 IOPS
4KB Random Write:	85000 IOPS

Reliability

MTBF:	2,000,000 hours
24x7 Operation:	Yes

Environmental Parameters

Min Operating Temperature:	0 °C
Max Operating Temperature:	70 °C
Min Storage Temperature:	-55 °C
Max Storage Temperature:	85 °C
Shock Tolerance (non-operating):	1500 g @ 0.5 ms half-sine
Vibration Tolerance (operating):	5 g @ 10-2000 Hz
Vibration Tolerance (non-operating):	4.9 g @ 7-800 Hz

Manufacturer Warranty

Service & Support:	Limited warranty - 5 years
--------------------	----------------------------

Miscellaneous

Compliant Standards:	UL, TUV, VCCI, BSMI, FCC, KC, Morocco
----------------------	---------------------------------------

Power

Power Consumption:	60 mW (active) 2550 mW (read) 3750 Watt (write) 56 mW (sleep) 12 mW (DevSleep)
--------------------	--

Expansion & Connectivity

Interfaces:	1 x SATA 6 Gb/s
Compatible Bay:	2.5"

