ComX Computers
Product Specification Sheet

HDWD1000DHTZ

Western Digital 1TB VelociRaptor SATA3 Gaming Drive

Product Overview

Western Digital 1TB VelociRaptor 10,000RPM, 64MB Cache, SATA III, 3.5" Gaming Drive.



Specifications

Features:

Ultra fast.
Designed around a 10,000 RPM spin speed, these SATA 6 Gb/s drives include a 64 MB cache and deliver the ultimate performance for photo and video editing.

Rock-solid reliability
With 1.4 million hours MTBF, these drives have the highest available reliability rating on a high capacity SATA drive.

High capacity
State-of-the-art technology delivers a balance of high performance and high capacity perfect for data-intensive workloads that require large amounts of storage such as video editing, 3D rendering and scientific modeling.

Ultra-cool operation
Consumes less idle power and uses similar active power as the previous generation WD VelociRaptor, while offering higher capacity and performance.

Advanced Format (AF)
Technology adopted by WD and other drive manufacturers as one of multiple ways to continue growing hard drive capacities. AF is a more efficient media format that enables increased areal densities.

Rotary Acceleration Feed Forward (RAFF)
Optimizes operation and performance when the drives are used in vibration-prone, multi-drive chassis.

IcePack mounting frame
The 2.5-inch hard drive is enclosed in a backplane-ready 3.5-inch mounting frame with a built-in heat sink that keeps this powerful little drive extra cool when installed in high-performance desktop chassis.

NoTouch ramp load technology

The recording head never touches the disk media ensuring significantly less wear to the recording head and media as well as better drive protection in transit.

Pre-emptive Wear Leveling (PWL)
Ensures reliability for applications that perform a high incidence of read/write operations at the same physical location on the disk.

Environmentally conscious
In addition to being RoHS compliant, this generation of WD VelociRaptor also provides a halogen-free design.

Ideal for
High-performance computing, 3D rendering, digital content creation and editing, scientific computing and image management.

Specifications:

Model	
Brand	Western Digital
Series	VelociRaptor
Model	WD1000DHTZ
Product Specifications	
Interface	SATA 6 Gb/s
Performance Specifications	
Rotational Speed	10, 000 RPM (nominal)
Buffer Size	64 MB
Load/unload Cycles	600, 000 minimum
Transfer Rates	
Buffer To Host (Serial ATA)	6 Gb/s (Max)
Physical Specifications	
Capacity	1 TB
User Sectors Per Drive	1, 953, 525, 169
Physical Dimensions	
Height	26.1 mm
Depth	147 mm
Width	101.6 mm
Weight	0.50 kg
Shock	
Operating Shock (Read)	65G, 2 ms
Non-operating Shock	300G, 2 ms
Acoustics	
Idle Mode	30 dBA (average)
Seek Mode 0	37 dBA (average)
Temperature (Metric)	

Operating	5 degrees C to 55 degrees C
Non-operating	-40 degrees C to 70 degrees C
Power Dissipation	
Read/Write	5.10 Watts
Idle	4.20 Watts
Standby	1.10 Watts
Sleep	1.10 Watts

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/HDWD1000DHTZ-Western-Digital-1TB-VelociRaptor-SATA3-Gaming-Drive-p-62100.php

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