ComX Computers
Product Specification Sheet

WD4001FAEX

Western Digital Black 4TB IntelliPower Performance SATA Hard Drive

Product Overview

Western Digital Black 4TB IntelliPower Performance SATA Hard Disk Drive







Specifications

Features:

Inspiring performance and capacity
For the creators, the gamers and those that demand the best, we delivered the next generation of hard drives to enlarge your PC playground. The latest WD Black desktop hard drives offer enhanced features that maximize system performance, allowing you to spend more time doing what you love most and less time waiting. WD Black is designed to intensify your PC experience with generous capacity and incredible performance, pushing the boundaries of personalization.

Smarter than the average drive
Performance and workstation PCs equipped with high-end components often omit vibrations and acoustics that can reduce the precision and performance of your hard drive. Even the best chassis on the market cannot always compensate against this. The new generation of WD Black hard drives feature Vibration Control Technology (VCT) which allows the disks inside the drive to adapt to any mounting problems or vibration conditions that are inside your case, resulting in increased data accuracy, performance and reliability over time. Put simply, this means you can game harder, faster and longer.

Action meets stable traction
In addition to Vibration Control Technology (VCT), WD Black is also equipped with StableTrac Technology, which secures the motor shaft inside the drive at both ends to help reduce additional system-induced vibrations. StableTrac confidently stabilizes the platters inside, resulting in more accurate tracking in a particular sector during read and write operations and delivers increased performance. (2 TB models and above)

High resolution for a high definition world
Underlying its athletic stance of performance and capacity, WD Black features a new High Resolution Controller (HRC) with an improved architectural design, resulting in increased data precision across the hard drive. This translates to superior responsiveness evolving your high definition world to the next level.

Protecting your moments
The worst thing that can happen during a rendering process is losing data due to power fluctuation or power failure. The new generation of WD Black hard drives is equipped with Corruption Protection Technology (CPT), which helps to protect and limit the potential problem of data loss during power failure or power loss to the hard drive. Overall, Corruption Protection Technology can save you time and money on your project.

Efficient dual processing
When it comes to processing power, more is always better. WD Black features a dual core processor that offers twice the processing power to maximize drive performance. Adding additional value, WD's Dynamic Cache Technology increases performance by improving caching algorithms in real time and optimizing the cache allocation between reads and writes. This results in the drive automatically allocating more cache for read data, which reduces data congestion and increases overall performance.

Industry-leading 5-year limited warranty
Our engineers have a relentless dedication to keeping your data safe. This passion is reflected in the industry-leading 5-year limited warranty we stand behind on all WD Black drives. The evidence for our success lies in our capability to continually deliver next-generation technologies and in our ability to stand behind these products with industry-leading 5-year limited warranty coverage. WD Black is tested to a higher standard than conventional hard drives with more strenuous and aggressive testing over a longer period of time. This is our story of innovation, refinement and passion for performance hard drives.

Upgrading your drive is easy
WD Acronis True Image, available as a free download on the WD Support site, enables you to copy all your data to a new drive so you don't have to reinstall your operating system to get all the benefits of a new drive.

Recommended use:
WD Black hard drives are tested and recommended for use in PCs, high-performance workstations, all-in-one PC's, gaming PC's, game consoles, home media PC's and notebook computers.*

Desktop drives are not recommended for use in RAID environments, please consider using WD Red hard drives for home and small office, 1 to 5 bay NAS systems and WD Datacenter hard drives for 6 bay and greater NAS systems.

Dynamic Cache
WD's dynamic caching algorithm improves performance in real time by optimizing cache allocation between reads and writes. For example, if there's an overwhelming percentage of read traffic as opposed to write traffic, the drive automatically allocates more cache for read data, which reduces congestion and improves overall drive performance.

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.

Specifications:

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Specifications	
Product Code	WD4001FAEX
Product Specifications	
Interface	SATA 6 Gb/s
Performance Specifications	
Rotational Speed	7, 200 RPM (nominal)
Buffer Size	64 MB
Average Latency	4.20 ms (nominal)
Load/unload Cycles	300, 000 minimum
Transfer Rates	
Buffer To Host (Serial ATA)	6 Gb/s (Max)
Physical Specifications	
Formatted Capacity	4, 000, 787 MB
Capacity	4 TB
User Sectors Per Drive	7, 814, 037, 168
Physical Dimensions	
Height	26.1 mm
Depth	147 mm
Width	101.6 mm
Weight	0.78 kg
Shock	
Operating Shock (Read)	30G, 2 ms
Non-operating Shock	300G, 2 ms
Acoustics	
Idle Mode	29 dBA (average)
Seek Mode 0	34 dBA (average)
Temperature (Metric)	
Operating	-0 degrees C to 60 degrees C
Non-operating	-40 degrees C to 70 degrees C
Power Dissipation	
Read/Write	10.40 Watts
Idle	8.10 Watts
Standby	1.20 Watts
Sleep	1.20 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/WD4001FAEX-Western-Digital-Black-4TB-IntelliPower-Performance-SATA-Hard-Drive-p-81692.php

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