TAA COMPLIANT

FIPS 140-2

Highlights

- FIPS 140–2 drive models (validation in progress) available and includes TPM v2.0 module to accommodate the most secure environments
- TAA-compliant to enable optimal government sourcing options
- Extreme performance with 40 CPU cores and 512GiB memory[1]
- Graphical processor unit for AI/ML tasks
- Over 60TB of NVMe™ flash storage[2]
- High-performance 100 GbE networking
- Trusted Platform Module 2.0 for security
- Robust transport case with wheels and handle

Ultrastar® Edge Transportable Edge Server

High-Performance Server for Remote Location Data Capture and Processing

Western Digital Ultrastar® Edge is a high-performance edge server that enables organizations to deploy remote data capture and analytics at the cloud edge. Processing data closer to where it is generated reduces the latency associated with sending data from a remote location to the core for processing. Remote processing reduces the amount of traffic on network backbones, enables faster decision making, and helps keep data center costs in check.

The ability to have low-latency processing in remote locations can enhance project or mission productivity. Organizations can deliver data center cloud-like services without an external network connection. The server has 40 cores, a GPU, 512 GiB of memory, and over 60TB of Ultrastar NVMe flash storage, so applications that normally run on Infrastructure as a Service (IaaS) environments can easily be run remotely.

With a wheeled travel case, the Ultrastar Edge is easily transportable between locations and rack-mountable with the included rail kit when needed. A militarized and ruggedized version, Ultrastar Edge-MR, is also available.

Designed for Government

Available TAA compliance allows this product to be sold via specific government channels. FIPS 140–2 drive models (validation in progress) with the Trusted Platform Module architecture offer increased assurances for secure environments.

Specifications

Max Drives	• 8 Ultrastar DC SN640 NVMe SSDs • 7.68TB per SSD, 1 DW/D, ISE (Instant Secure Erase)
Boot Drives	• 2 M.2 NVMe 1TB SSDs
CPUs	• 2 Intel® Xeon® Gold 6230T, 2.1GHz, 20 cores each, 125W TDP
Memory	• 512GiB DDR4 Installed (8x 64GiB DIMMs)
GPU	• NVIDIA® Tesla® T4
Networking	• Dual 10GBase-T RJ-45 • Mellanox® ConnectX®-5 100GbE QSFP28
I/O	• 1 Serial DB9 Console Port
Physical Dimensions	• Height: 88.9mm (3.5") • Width: 431.8mm (17") • Depth: 502.9mm (19.8")
Weight	• 15.15kg (33.4lbs)
Power	• 850W, Platinum • 100–240V AC input, auto ranging, 50–60Hz
Cooling	• 460mm fans
Management	• IPMI 2.0 system management • Dedicated DB9 Serial management port
Environmental	• Operating Temperature: 0°C to 43°C • Non-op Temperature: -5°C to 63°C • Operating Altitude: 3,050 m (10,000 ft)
Physical Security	• FIPS 140–2 Level 2

[1] System memory is indicated in gibibytes (GiB) and one GiB is equal to 1,073,741,824 bytes.

[2] One terabyte (TB) is equal to one trillion bytes and one petabyte (PB) is equal to 1,000TB. Actual user capacity may be less due to operating environment.

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