ComX Computers
Product Specification Sheet

DM7P5ES

HP ZBook 8 G1i 14 Core Ultra 2 Workstation Notebook Ultra 5 225H 5.1GHz 24GB 1TB 14" WUXGA RTX 500 Ada 4GB BT Win 11 Pro

Product Overview

HP ZBook 8 G1i 14 Series Core Ultra Series 2 DM7P5ES Grey Workstation Notebook, Intel Core Ultra 5 225H Series 2 Fourteen (14) Core Arrow Lake Turbo Boost up to 4.9Ghz 18MB L3 Cache Processor (4 Perfomance Cores & 8 Efficient Cores & 2 Low Power Efficient Cores), 24GB DDR5-5600 SO-Dimm Memory (2x12GB), Supports 64GB Max Mem, 2 Memory slots, 1TB SSD Solid State Hard Drive PCIe, M.2 2280 slot, NO optical drive (No CD), 14" WUXGA (1920 x 1200 resolution) Non Gloss Type IPS, 300nits LED Backlit Display, nVidia RTX 500 Ada with 4GB dedicated graphics, Intel AI Boost 13 TOPS, Wi-Fi 7, 10/100/1000 Gigabit Ethernet LAN, Bluetooth, Webcam, Fingerprint Reader, Backlit Keyboard, 2x Thunderbolt 4 with USB Type-C 40Gbps (USB Power Delivery / DisplayPort 2.1), 1x USB Type-A 5Gbps (powered), 1x USB Type-C 20Gbps (USB Power Delivery / DisplayPort 1.4), HDMI output, 1.5 kg, Microsoft Windows 11 Professional 64 bit, 3 Year On-site warranty









Specifications

Summary Overview:

Upgrade your professional workflow with the powerful HP ZBook 8 G1i Mobile Workstation, now available in South Africa. This sleek and robust notebook is engineered to handle demanding tasks effortlessly, featuring the latest Intel Core Ultra Series 2 processor and dedicated NVIDIA RTX 500 Ada graphics for seamless AI workflows and high-end design projects.

Equipped with a vibrant 16-inch WUXGA display and 24GB of fast DDR5 memory, this machine ensures you can multitask without slowdowns. Whether you are editing video, running complex simulations, or managing secure business operations, the HP ZBook 8 delivers reliability and speed on the go. Don't let technical limitations hold you back; shop now to experience pro-grade performance in a portable form factor.

Laptop performance tier: High-End Mobile Workstation

Uses:AI workflows, 3D rendering, video editing, engineering simulations, business productivity, data analysis

Overview:

The HP ZBook 8 G1i 16-inch Mobile Workstation PC, identified by part number DM7P5ES, is engineered for professionals who demand high performance without sacrificing mobility. This sleek workstation notebook combines cutting-edge hardware with robust security features, making it an ideal choice for complex AI workflows, design projects, and intensive business productivity tasks. Powered by the latest Intel Core Ultra 5 225H processor, this machine delivers exceptional speed and efficiency, ensuring that your most demanding applications run smoothly.

Description

This HP ZBook 8 G1i workstation notebook offers a powerful blend of performance and portability for modern professionals. Key benefits include the Intel Core Ultra 5 225H processor with up to 4.9 GHz turbo boost speeds, 24GB of fast DDR5-5600 memory, and an NVIDIA RTX 500 Ada graphics card for professional-grade rendering. It features a durable 16-inch WUXGA display, comprehensive connectivity via Wi-Fi 7 and Thunderbolt 4 ports, and advanced security with HP Wolf Pro Security Edition built-in.

Features:

Pro-Level Performance for Demanding Workloads

Upgrade your productivity with fast, reliable performance tailored for complex tasks. The Intel Core Ultra architecture delivers up to 13 NPU TOPS of AI acceleration, supporting both integrated and discrete graphics options. With large memory configurations available, you can handle massive files and run professional applications simultaneously without slowdowns. This setup ensures seamless multitasking, allowing you to focus on critical work rather than waiting for your system to catch up.

Portable Design for Work Anywhere

Designed with mobility in mind, the HP ZBook 8 is compact enough to fit comfortably into a bag while offering long-lasting battery life. Whether you are working from the office, at home, or traveling internationally, this workstation ensures high performance without compromise. The durable build quality and spill-resistant keyboard make it suitable for dynamic work environments.

Accelerate AI Workflows

Optimize your artificial intelligence inferencing and advanced workflows with professional-grade graphics and compute power. The inclusion of the NVIDIA RTX 500 Ada Generation Laptop GPU enables efficient task execution, letting you focus on critical work without slowing down other demanding processes. This makes it an excellent tool for developers and designers working with AI models or 3D rendering.

Optimized for Windows 11 Pro

This system comes pre-installed with Microsoft Windows 11 Professional, recommended for business users who need advanced collaboration and security features. Benefit from tools like Microsoft Copilot to help summarize content, get relevant recommendations, and stay organized across your projects. The OS integration ensures a secure and efficient environment for all your professional needs.

NVIDIA Graphics for High-End Projects

The optional NVIDIA RTX 500 Ada Laptop GPU provides certified performance for professional applications. Whether you are handling large design projects, 3D rendering, or AI workloads, you can do so with confidence. The dedicated 4GB GDDR6 memory ensures smooth visuals and rapid processing times.

High-Speed Storage Solutions

Work without limits using PCIe storage that is significantly faster than traditional hard drives. Load files, applications, and

projects in seconds, even when working on location away from your main office infrastructure. The 1TB SSD ensures you have ample space for your essential data.

Technical Specifications

- Operating System: Microsoft Windows 11 Professional 64-bit
- Processor: Intel Core Ultra 5 225H (up to 4.9 GHz with Turbo Boost, 18 MB L3 cache)
- Cores: 14 cores total including performance and efficient cores
- Memory: 24 GB DDR5-5600 MT/s SO-Dimm (expandable up to 64GB)
- Graphics: NVIDIA RTX 500 Ada Generation with 4GB GDDR6 dedicated memory
- Display: 16-inch WUXGA (1920 x 1200) IPS, anti-glare, 300 nits brightness
- Storage: 1TB PCIe NVMe SSD M.2 2280 slot
- Connectivity: Wi-Fi 7 BE201 and Bluetooth 5.4 wireless card
- Battery: HP Long Life 8-cell, 77 Wh Li-ion polymer with fast charge support (approx. 50% in 30 mins)
- Weight: Starting at 1.72 kg depending on configuration
- Dimensions: 35.9 x 25 x 1.92 cm

Connectivity and Ports

Stay connected with a comprehensive array of ports designed for versatility. The left side houses two Thunderbolt 4 ports with USB Type-C supporting 40Gbps signaling, an HDMI 2.1 output, and a headphone/microphone combo jack. On the right side, you will find a security lock slot, an RJ-45 Ethernet port for wired LAN connectivity, a powered USB Type-A port at 5Gbps, and an additional USB Type-C port with 20Gbps support.

Security and Multimedia Features

Your data is protected by HP Wolf Pro Security Edition software included on this device. For personal security, the laptop includes a fingerprint reader and an IR AI camera for secure login capabilities. The audio experience is enhanced by Poly Studio technology featuring dual stereo speakers and digital microphones. The keyboard is a premium quiet model with DuraKeys technology, designed to be spill-resistant and fully backlit.

What's in the box

The package includes the HP ZBook 8 G1i notebook, a 140 W USB Type-C slim power adapter, documentation, and cables required for initial setup. The packaging utilizes sustainable materials including molded paper pulp cushions and recyclable corrugated boxes.

Specifications:

Operating system	Windows 11 Pro
Processor family	Intel Core Ultra 5 processor
Processor	Intel Core Ultra 5 225H (up to 4.9 GHz with Intel Turbo Boost Technology, 18 MB L3 cache, 14 cores, 14 threads)
Chipset	Intel integrated SoC
Graphics	Integrated
	Intel Arc 130T GPU
Graphics	Discrete
	NVIDIA RTX 500 Ada Generation Laptop GPU (4 GB GDDR6 dedicated)
Memory	24 GB DDR5-5600 MT/s (1x 24 GB)
Memory Slots	2 SODIMM , supports dual channel
Internal Storage	1TB PCIe NVMe SSD
Display	16" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 62.5% sRGB
Display	40.6 cm (16") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 62.5% sRGB

Touchscreen	No
Color gamut	100% sRGB
Dimensions (W x D x H)	35.9 x 25 x 1.92 cm (Dimensions vary by configuration)
Weight	Starting at 1.72 kg (Weight varies by configuration and components.)
Security Software Licenses	HP Wolf Pro Security Edition (1 year)
Battery type	HP Long Life 8-cell, 77 Wh Li-ion polymer
Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes
Wireless	Intel Wi-Fi 7 BE201 (2x2) and Bluetooth 5.4 wireless card, non-vPro
Keyboard	HP Premium Quiet Keyboard - spill-resistant, full-size, backlit keyboard with drain and DuraKeys and numeric keypad
Camera	5 MP IR AI camera
Audio	Audio by Poly Studio, dual stereo speakers, HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio
Pointing device	Clickpad with multi-touch gesture support
Ports	Left side 1 HDMI 2.1 , 1 headphone/microphone combo , 2 Thunderbolt 4 with USB Type-C 40Gbps signaling rate (USB Power Delivery, DisplayPort 2.1)
	Right side 1 security lock slot , 1 RJ-45 Ethernet port , 1 USB Type-A 5Gbps signaling rate (powered) , 1 USB Type-C 20Gbps signaling rate (USB Power Delivery, DisplayPort 1.4)
Power	140 W USB Type-C slim adapter
Fingerprint reader	Fingerprint reader
Ecolabels	TCO Certified
Sustainable impact specifications	Low halogen , 40% post-consumer recycled plastic , Bulk packaging available , External power supply 90% efficiency , Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable , Outside box and corrugated cushions are 100% sustainably sourced and recyclable

FAQ

Is this laptop suitable for heavy AI and design workloads?

The HP ZBook 8 G1i is designed for demanding tasks, featuring an Intel Core Ultra 5 processor with up to 4.9 GHz turbo boost, an NVIDIA RTX 500 Ada graphics card with 4GB dedicated memory, and a dedicated Intel AI Boost engine. It also comes pre-installed with HP Wolf Pro Security Edition to ensure safe handling of critical business data.

Can I upgrade the RAM or storage on this workstation?

Yes, the notebook includes two SODIMM slots for memory expansion, allowing you to upgrade from the standard 24GB DDR5 up to a maximum of 64GB. Additionally, it features an M.2 2280 slot compatible with PCIe SSDs, though it does not include an optical drive for CDs.

What connectivity options are available on this model?

This device is equipped with Wi-Fi 7 and Bluetooth for wireless connections. For wired needs, the left side offers two Thunderbolt 4 ports (supporting USB Power Delivery and DisplayPort 2.1) alongside an HDMI output, while the right side includes a Gigabit Ethernet port, a USB Type-A port, and another USB-C port.

Does this notebook have a touchscreen display?

No, the HP ZBook 8 G1i comes with a non-touch 16-inch WUXGA IPS display that features anti-glare coating and 300 nits brightness. It does not support touch input but offers excellent color accuracy for professional workflows.

How long does it take to charge the battery?

The laptop utilizes a 77 Wh Li-ion polymer battery that supports fast charging, capable of reaching approximately 50% power in just 30 minutes when connected via the included USB-C adapter.

Product Information Online

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

Product page:
https://comx-computers.co.za/Buy-Notebooks-Laptops-DM7P5ES-HP-ZBook-8-G1i-14-Core-Ultra-2-Workstation-Notebook-lp-342079.php

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