ComX Computers
Product Specification Sheet

DV9L1ES

HP Z2 Mini G1i Workstation Desktop AI PC, Core Ultra 5 235 5GHz, 16GB RAM, 512GB SSD, Win 11 Pro

Product Overview

HP Z2 Mini G1i Workstation Desktop AI PC, Intel Core Ultra 5 235 Fourteen (14) Core Arrow Lake Turbo boost up to 5.0GHz 24MB Cache Processor with Intel Graphics (6 perfomance Cores & 8 efficient Cores), 16GB DDR5-6400 Memory, 512GB M.2 PCI-e Gen4 NVMe SSD storage, Windows 11 Pro Operating System installed, 2x USB Type-C 20Gbps and 1x USB Type-A 10Gbps front Ports, 2 x DisplayPort 1.4 and 1x RJ-45 rear Ports included, HP 320K v2 Wired Keyboard and HP 320m Wired Mouse provided, Slim Mini Form Factor supporting horizontal or Vertical positioning











Specifications

Summary Overview:

Upgrade your workspace with the powerful HP Z2 Mini G1i Workstation Desktop, an AI-ready machine engineered for professionals in South Africa who demand reliability and performance. Featuring the latest Intel Core Ultra 5 processor, 16GB of DDR5 RAM, and a speedy 512GB SSD, this compact powerhouse handles demanding creative tasks and multitasking with ease while Windows 11 Pro ensures top-tier security and productivity tools like Microsoft Copilot are at your fingertips.

Designed for flexibility, the slim chassis fits effortlessly on any desk or can be mounted behind a monitor to save valuable space. Whether you need a dedicated workstation for engineering, design, or general business operations, this unit delivers unthrottled performance with advanced cooling technology that keeps it quiet and cool under heavy loads. Secure your high-performance AI desktop today by buying now from our online store.

Performance tier: High-End Workstation

Uses: Creative design, engineering simulations, data analysis, office productivity, AI workflows

Overview:

HP Z2 Mini G1i Desktop AI PC - Intel Core Ultra 5 Workstation

The HP Z2 Mini G1i is a compact powerhouse designed for professionals who need serious performance without the bulk of a traditional tower. Powered by the latest Series 2 Intel Core Ultra 5 processor, this desktop delivers exceptional speed and efficiency for demanding creative workflows, data analysis, and business applications. With built-in AI capabilities and a sleek form factor that adapts to any workspace, it ensures your ideas keep flowing while you tackle complex tasks with ease.

Description:

The HP Z2 Mini G1i (Part Number DV9L1ES) combines professional-grade performance with a space-saving design. This desktop AI PC features an Intel Core Ultra 5 235 processor, 16GB of fast DDR5 memory, and a 512GB PCIe SSD for rapid boot times and file access. Running on Windows 11 Pro, it offers enterprise-level security and collaboration tools. The system includes a wired HP keyboard and mouse, making it ready to work right out of the box. Its innovative cooling technology ensures quiet operation even under heavy loads.

Features:

Design and Flexibility
Engineered for versatility, this workstation fits seamlessly into any environment. You can position it horizontally on your desk or

mount it vertically behind a monitor using standard VESA mounts. For IT administrators managing multiple units, the Z2 Mini features a rackable design that allows up to six units in 5U of space, maximizing density without sacrificing cooling efficiency.

Performance and AI Capabilities
This system is built to accelerate modern workflows. The integrated Intel NPU provides up to 13 TOPS of AI performance, handling productivity tasks locally to free up the CPU for other workloads. While it comes with integrated Intel Graphics, the chassis supports optional low-profile discrete graphics cards like NVIDIA RTX GPUs for enhanced visual processing and rendering capabilities.

Thermal Management
Keeping your workstation cool is essential for maintaining peak performance. The Z2 Mini utilizes phase change cooling technology to optimize heat transfer from the CPU, offering better reliability than traditional liquid solutions. Proprietary sensors and algorithms monitor system temperature in real-time, activating fans only when necessary to maintain a quiet environment while preventing thermal throttling during intensive projects.

Connectivity and Ports
Stay connected with an extensive array of high-speed ports on both the front and rear panels. The side panel offers two USB Type-C ports running at 20Gbps, a charging-capable USB Type-A port, and a combo audio jack. The rear includes additional USB Type-C and Type-A ports for peripherals, dual DisplayPort outputs for multi-monitor setups, and an RJ-45 Ethernet port for stable wired networking.

Please note that while the system supports Wi-Fi 7 in select configurations, this specific unit comes with connectivity options focused on wired performance. The internal memory is expandable via two SODIMM slots, allowing you to upgrade capacity as your needs grow over time.

Key Features

- Intel Core Ultra 5 235 Processor with up to 14 Cores and 5.0 GHz boost speed
- Built-in AI acceleration for faster local processing and productivity tasks
- Windows 11 Pro operating system for business security and collaboration
- Slim, rackable mini form factor suitable for desk or VESA mounting
- Advanced cooling with phase change technology to prevent overheating
- Tool-free access for easy upgrades to memory and storage
- Included HP 320K v2 keyboard and HP 320M wired mouse

Technical Specifications
The unit ships with a 280 W external power adapter featuring active PFC. The internal storage consists of a 512 GB M.2 2280 PCIe Gen4 NVMe SSD, ensuring fast data retrieval. Memory is configured as 16 GB DDR5-SDRAM running at 6400 MHz in a single module. The graphics are handled by Intel Graphics integrated into the processor. The system supports expansion through multiple internal slots including M.2 for WLAN and PCIe lanes for future graphics upgrades.

What's in the box:

- HP Z2 Mini G1i Desktop Workstation
- HP 320K v2 Wired Keyboard
- HP 320M Wired Mouse
- Power Cord and External Power Adapter

Part Number: DV9L1ES

Specifications:

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Specifications	
Product Code	DV9L1ES
Product	HP Z2 Mini G1i Desktop AI PC
Product Type	Workstation Desktop
Form Factor	Mini
Processor Family	Series 2 Intel Core Ultra 5
Processor Model	235
Processor Frequency	2.70 GHz / Up to 5.00 GHz (24 MB Cache, 14 Cores)
vPro Security	Not Supported
NPU	Intel AI Boost, up to 13 TOPS
Internal Memory	16 GB 6400 MHz (1 x 16 GB)
Internal Memory Type	DDR5-SDRAM
Memory Slots	2 SODIMM
Max Memory	Not Specified
Total Storage Capacity	512 GB M.2 PCIe Gen4 NVMe
Storage Media	SSD
Storage Slot	M.2 2280
Max Storage Support	Not Specified
Expansion Slots	1 x M.2 2230 for WLAN , 2 x M.2 2280 PCIe 5 x4 , 1 x PCIe 5 x8 Electrical (x16 Mechanical, Low Profile)
Optional Bay	Not Supported
On-board Graphics Card Model	Intel Graphics
Discrete Graphics Card Model	Not Included
Keyboard	HP 320K v2 Wired Keyboard
Mouse	HP 320M Wired Mouse
Connectivity	Wi-Fi and Bluetooth Not Included
Security Chip	Not Specified
Physical Lock	Not Specified
Operating System Installed	Windows 11 Pro
Card Reader	Not Supported
Optical Drive	Not Supported
Power Supply	280 W External Power Adapter, Active PFC
Product Colour	Black
Weight	Approx. 2.40 kg

Side Ports	2 x USB Type-C 20Gbps
	1 x USB Type-A 10Gbps (Charging)
	1 x Headphone/Microphone Combo
Rear Ports	2 x USB Type-C 10Gbps (15 W Output)
	3 x USB Type-A 10Gbps
	2 x DisplayPort 1.4
	1 x RJ-45

FAQ

Does this workstation come with wireless connectivity?
The HP Z2 Mini G1i Desktop AI PC does not include Wi-Fi or Bluetooth modules; these are available as optional upgrades on select models only.

Can I upgrade the memory and storage later?
Yes, the system features slide-out, tool-free interior access that allows you to easily swap graphics cards, add up to 16 GB of DDR5-SDRAM in two SODIMM slots, or expand storage using standard M.2 2280 PCIe slots.

Is this computer suitable for AI workloads?
Absolutely; the Series 2 Intel Core Ultra 5 processor includes an integrated NPU (Intel AI Boost) that handles productivity tasks efficiently, and it supports discrete graphics cards up to NVIDIA RTX 4000 SFF Ada Generation for accelerated AI workflows.

How flexible is the placement of this mini desktop?
The Z2 Mini features a slim design that can be positioned horizontally or vertically on a desk, mounted behind a monitor, attached under a desk, or installed in a rack to maximize density.

Does the system run hot during intensive tasks?
No, it utilizes phase change CPU cooling and smart fan control with new lattice venting to keep the processor and graphics card cool, ensuring unthrottled performance even under heavy workloads.

Product Information Online

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

Product page:
https://www.comx.co.za/DV9L1ES-HP-Z2-Mini-G1i-Workstation-Desktop-AI-PC-Core-Ultra-5-235-5GHz-16GB-RAM-512GB-p-342558.php

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