



# HP Z2 Mini G1a Copilot+ PC AMD Ryzen AI Max PRO PRO 385 64 GB LPDDR5x-SDRAM 1 TB SSD Windows 11 Pro Mini PC Workstation AI Workstation, AI PC Black



Brand : HP

Product family: Z2

Product code: A40PWET

Product name : Z2 Mini G1a

- AMD Ryzen™ AI Max PRO 385 (up to 5.0 GHz max boost clock, 32 MB L3 cache, 8 cores, 16 threads)
  - Windows 11 Pro
  - AMD Radeon™ 8050S Graphics
  - 64 GB LPDDR5x-8533 MT/s (onboard), 1 TB PCIe Gen4 NVMe™ TLC M.2 SSD
- Z2 Mini G1a Workstation Desktop PC, Windows 11 Pro, AMD Ryzen™ AI Max PRO, 64GB RAM, 1TB SSD, Jet black, AI Workstation; AI PC; Copilot+ PC

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## Mini workstation. Transformative AI performance.

Unlock workflows previously not possible on a mini workstation. Transformative performance is packed into a compact Next Gen AI PC to take on complex AI accelerated projects like never before—simultaneously 3D design and render graphics-intensive projects or work locally with LLMs.

| Processor                          |                                 | Ports & interfaces             |                        |
|------------------------------------|---------------------------------|--------------------------------|------------------------|
| Processor manufacturer *           | AMD                             | Microphone in                  | ✓                      |
| Processor family *                 | AMD Ryzen AI Max PRO            | Mini DisplayPorts quantity     | 2                      |
| Processor generation               | AMD Ryzen AI Max PRO 300 Series | <b>Power</b>                   |                        |
| Processor model *                  | PRO 385                         | Power supply *                 | 300 W                  |
| Processor cores                    | 8                               | <b>Design</b>                  |                        |
| Processor threads                  | 16                              | Chassis type *                 | Mini PC                |
| Processor boost frequency          | 5 GHz                           | Colour name                    | Jet black              |
| Processor frequency *              | 3.6 GHz                         | Product colour *               | Black                  |
| Processor cache                    | 32 MB                           | Introduction year              | 2025                   |
| Processor cache type               | L3                              | Country of origin              | China, Mexico          |
| <b>Neural processor unit (NPU)</b> |                                 | <b>Software</b>                |                        |
| Copilot+ PC                        | ✓                               | Operating system installed *   | Windows 11 Pro         |
| Neural processor unit (NPU)        | AMD Ryzen AI                    | <b>Display</b>                 |                        |
| Total processor performance up to  | 106 TOPs                        | Display included *             | ✗                      |
| NPU performance up to              | 50 TOPs                         | <b>Brand-specific features</b> |                        |
| <b>Memory</b>                      |                                 | HP Artificial Intelligence     | AI Workstation, AI PC  |
| Internal memory *                  | 64 GB                           | HP GTIN (EAN/UPC)              | 199251646867           |
| Maximum internal memory *          | 64 GB                           | HP segment                     | Business               |
| Internal memory type               | LPDDR5x-SDRAM                   | <b>Audio</b>                   |                        |
| Memory clock speed                 | 8533 MHz                        | Audio chip                     | Realtek ALC3205-VA2-CG |
| Memory data transfer rate          | 8533 MT/s                       | Number of speakers             | 1                      |
| <b>Storage</b>                     |                                 | <b>Weight &amp; dimensions</b> |                        |
| Total storage capacity *           | 1 TB                            | Width *                        | 85.5 mm                |
| Storage media *                    | SSD                             | Depth *                        | 168 mm                 |
| Optical drive type *               | ✗                               | Height *                       | 85.5 mm                |
| Number of storage drives installed | 1                               | Weight *                       | 2.3 kg                 |
| Total SSDs capacity                | 1 TB                            | <b>Packaging data</b>          |                        |
| Number of SSDs installed           | 1                               | Package width                  | 499 mm                 |
| SSD capacity                       | 1 TB                            |                                |                        |
| SSD memory type                    | TLC                             |                                |                        |

|   |                      |   |   |
|---|----------------------|---|---|
| <b>Storage</b>                                    |                      | <b>Packaging data</b>   |   |
| SSD interface                                     | PCI Express 4.0      | Package depth   | 185 mm  |
| NVMe  | ✓                    | Package height  | 298 mm  |
| SSD form factor                                   | M.2                  | Package weight  | 4.1 kg  |
| <b>Graphics</b>                                   |                      | <b>Packaging content</b>  |   |
| Discrete graphics card *                          | ✗                    | Mouse included  | ✓   |
| On-board graphics card *                          | ✓                    | Mouse connectivity  | Wired   |
| Discrete graphics card model *                    | Not available        | Keyboard included   | ✓   |
| On-board GPU manufacturer                         | AMD                  | Numeric keypad  | ✗   |
| On-board graphics card family                     | AMD Radeon Graphics  | Input device model  | HP Wired 320M Mouse   |
| On-board graphics card model *                    | AMD Radeon 8050S     | <b>Certificates</b>   |   |
| <b>Performance</b>                                |                      | Low halogen   | ✓   |
| Market positioning                                | Performance          | <b>Sustainability</b>   |   |
| Password protection                               | ✓                    | Sustainability compliance   | ✓   |
| Password protection type                          | BIOS, Power on       | Sustainability certificates   | ENERGY STAR, EPEAT, TCO, TCO10  |
| Product type *                                    | Workstation          | Bulk packaging available; 10% ITE-derived closed loop plastic; Product Carbon Footprint; Contains at least 65% post-consumer recycled plastic; Contains at least 20% post-industrial recycled steel; System has a QR code enabled experience where the user has access to a product portal - beginning December 2025, this is complete with product feature highlights, sustainability information, getting started guides, and direct setup and support options; New Energy Consumption dashboard available to customers providing timely carbon usage including recommended actions users can take to decrease carbon footprint |   |
| Built-in speaker(s)                               | ✓                    |   |   |
| <b>Network</b>                                    |                      | Sustainable technologies and materials  |   |
| Ethernet LAN *                                    | ✓                    | <b>Logistics data</b>   |   |
| Ethernet LAN data rates                           | 10,100,1000 Mbit/s   | Harmonized System (HS) code   | 8471500000  |
| Cabling technology                                | 10/100/1000Base-T(X) | <b>Supplier features</b>  |   |
| Wi-Fi *   | ✗                    | Manufacturer warranty   | 1 year (1/1/1) limited warranty includes 1 year of parts, labor and on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.  |
| <b>Ports &amp; interfaces</b>                     |                      | Support service included  | HP 3y Onsite w/DMR Low End Workstation Supp. For terms and conditions, please visit <a href="https://h20195.www2.hp.com/v2/GetPDF.aspx/4AA8-2300EEE">https://h20195.www2.hp.com/v2/GetPDF.aspx/4AA8-2300EEE</a> & <a href="https://www8.hp.com/h20195/v2/getpdf.aspx/4AA5-7123EEGB.pdf">https://www8.hp.com/h20195/v2/getpdf.aspx/4AA5-7123EEGB.pdf</a> |
| USB 2.0 ports quantity *                          | 2                    | <b>Carbon footprint</b>   |   |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 3                    | Total carbon footprint (kg of CO2e)   | 380   |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity * | 1                    | Carbon emissions, manufacturing (kg of CO2e)  | 237   |
| USB Power Delivery (USB PD)                       | ✓                    | Carbon emissions, logistics (kg of CO2e)  | 3   |
| USB4 Gen 3x2 ports quantity                       | 2                    | Carbon emissions, end-of-life (kg of CO2e)  | 2   |
| USB Type-C DisplayPort Alternate Mode             | ✓                    | Total carbon emissions, w/o use phase (kg of CO2e)  | 135   |
| Intel® Thunderbolt 4                              | ✓                    | <b>Keyboard</b>   |   |
| Thunderbolt 4 ports quantity                      | 2                    | Keyboard connectivity   | Wired   |
| DisplayPort version                               | 2.1                  | <b>Other features</b>   |   |
| Ethernet LAN (RJ-45) ports                        | 1                    | UNSPSC-code   | 43211515  |
| Combo headphone/mic port                          | ✓                    |   |   |



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