HP ZGX Nano G1n AI Station (D4PL6UT)

Overview

AI supercomputing goes Nano

Accelerate AI workflows with HP ZGX Nano and ZGX Toolkit[1], high-performance local compute combined with a curated open-source stack for prototyping, fine-tuning and inferencing. Built-in IP discovery, model export and local serving reduce friction, ensuring repeatable, deployment-ready results.

Big AI performance. Tiny footprint.

Prototype, fine-tune, and inference models of up to 200B parameters locally. Powered by NVIDIA® GB10 Grace Blackwell Superchip[2] and 128 GB of coherent unified memory, the HP ZGX Nano delivers 1,000 TOPS of FP4 AI performance in a compact desktop.

Offload AI workloads without the cloud

Pair existing laptop and desktop systems—Windows, Mac, or Linux—with a network-connected HP ZGX Nano. Get developer-grade performance without data center queues and costly cloud instances, minimizing latency and keeping sensitive information local.

HP ZGX Toolkit: Accelerate time to results

Move from idea to deployment faster. The ZGX Toolkit[1] streamlines AI workflows by pairing powerful local compute with open-source tools, built-in discovery, and easy export—helping teams cut friction, boost productivity, and scale results anywhere.

Advance edge AI solutions

Realize the true potential of edge AI solutions. From real-time computer vision to running agentic and domain-specific models locally, get the performance needed to deploy intelligent, responsive solutions directly where data is generated.

Features

NVIDIA® DGXTM OSand AI softwarestack

Hit the ground prototyping, fine-tuning, and inferencing with familiarNVIDIA® DGXTM OS and integrated NVIDIA® AI software stack purpose-built for modern AI development.

Unified systemmemory

Run AI development and testing workloads with AI models of up to 200billion parameters at your desk with 128 GB of coherent unified systemmemory.

NVIDIA® ConnectX™ Networking

Work with even larger AI models locally—up to 405 billion parameters—by connecting two HP ZGX Nano systems together to scale localcompute resources.[3]

Tiny AI powerhouse

Measuring at 150mm L x 150mm W x 51mm H,5 this new class ofdesktop is purpose-built for AI development yet fits in the palm of yourhand.[4]

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[1] The HP ZGX Toolkit is provided free of charge. Use requires a client device running Windows 11 or Ubuntu 24.04 (or later) with Visual Studio Code installed and host device ZGX Nano. The client device must be x86-based, but otherwise there are no restrictions regarding hardware specifications or device manufacturer. Availability may vary by region and is subject to applicable local laws, regulations, and restrictions.

[2] Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations.

[3] Requires compatible QSFP cable. Sold separately.

[4] Height excludes feet.

Specifications

Form Factor	Mini
Operating System Software	NVIDIA DGX ™ OS
Standard Memory Description 01	128 GB LPDDR5x-8533 MT/s (onboard)
Hard Drive Description (01)	2 TB PCIe® Gen4 NVMe™ TLC M.2 SSD
Audio Features	HDMI Audio Output
Product Dimensions (metric)	15 x 15 x 5.1 cm (without feet); 15 x 15 x 5.45 cm (with feet) *(Standard desktop orientation.)*
Product Dimensions (imperial)	5.9 x 5.9 x 2.01 in (without feet); 5.9 x 5.9 x 2.1 in (with feet) *(Standard desktop orientation.)*
Weight (metric)	Starting at 1.25 kg *(Exact weights depend upon configuration (System weight only))*
Weight (imperial)	Starting at 2.76 lb *(Exact weights depend upon configuration (System weight only))*
External I/O Ports	1 USB Type-C® power connector; 3 USB Type-C® 20Gbps signaling rate; 1 RJ-45 (10Gbps); 2 QSFP 200 Gbps signaling rate; 1 HDMI 2.1a
Package Dimensions (metric)	21.6 x 14.2 x 27.2 cm
Package Weight (metric)	Starting at 2.5 kg
Network Interface	NVIDIA ConnectX-7 200 GbE Ethernet Controller
Wireless Technologies	MediaTek Wi-Fi 7 MT7925 (2x2) and Bluetooth® 5.4 wireless card
Power Supply Required	240 W external USB Type-C® power adapter, up to 89% efficiency, active PFC
Sustainable Impact Specifications	40% post-consumer recycled plastic; 60% post-consumer recycled plastic; 100% sustainably sourced packaging; Contains at least 20% post-industrial recycled steel; 100% sustainably sourced packaging or recycled; 75% recycled aluminum
UPC Number	(ABA) 199896769365; (ABC) 199896774949

Additional specifications

Bluetooth Version	Bluetooth® 5.4
Certifications and Compliances	TAA compliant
I/O Port Location 01	Rear
Memory Layout (Slots & Size)	onboard
Memory Size	128
Memory Size UOM	GB
Memory Speed	8533
Memory Speed UOM	MT/s
Memory Storage Simplified	128 GB memory;2 TB SSD storage
Memory Type	LPDDR5x
Package Dimensions (imperial)	8.5 x 5.6 x 10.7 in
Package Weight (imperial)	Starting at 5.4 lb
Processor Brand	NVIDIA®
Processor Core	20
Processor Model	GB10
Product Long Name Specifications	HP ZGX Nano G1n AI Station, NVIDIA DGX ™ OS, NVIDIA® 128GB RAM, 2TB SSD, AI Workstation; AI PC
Product Short Name Specifications	HP ZGX Nano G1n AI Station, NVIDIA® 128GB RAM, 2TB SSD, AI Workstation; AI PC
Software Included 1	NVIDIA AI software stack
Standard Memory Note 01	Transfer rates up to 8533 MT/s.
Storage Capacity 01	2
Storage Capacity UOM 01	TB
Storage Form Factor 01	M.2
Storage Interface 01	PCIe® Gen 4
Storage Interface Protocol 01	NVMe™
Storage Memory Technology 01	TLC
Storage Type 01	SSD
Storage type (filter)	SSD
UNSPSC Code	43211515
Wireless Antenna	2x2
Wireless Model	MT7925
Wireless Standard	Wi-Fi 7
Wireless Supplier	MediaTek

Monitors

Business Monitors

★ : Recommended

E-Series

HP E22 G5 FHD Monitor	6N4E8AA	
HP E22 G5 FHD Monitor	6N4E8AS	
HP E22 G5 FHD Monitor	6N4E8E9	
HP E24 G5 FHD Monitor	6N6E9AA	
HP E24i G4 WUXGA Monitor	9VJ40AA	
HP E24m G4 FHD USB-C Conferencing Monitor	40Z32AA	
HP E24mv G4 FHD Conferencing Monitor	169L0AA	
HP E24mv G4 FHD Conferencing Monitor	169L0AS	
HP E24mv G4 FHD Conferencing Monitor	169L0E9	
HP E24mv G4 FHD Conferencing Monitor	169L0L9	
HP E24t G5 FHD Touch Monitor	6N6E6AA	
HP E24t G5 FHD Touch Monitor	6N6E6AS	
HP E24t G5 FHD Touch Monitor	6N6E6E9	
HP E24u G5 FHD USB-C Monitor	6N4D0AA	
HP E27 G5 FHD Monitor	6N4E2AA	
HP E27 G5 FHD Monitor	6N4E2AL	
HP E27 G5 FHD Monitor	6N4E2AS	obsolete
HP E27 G5 FHD Monitor	6N4E2E9	obsolete
HP E27 G5 FHD Monitor	6N4E2L9	obsolete
HP E27 G5 FHD PVC Free Monitor	6N4E2A5	obsolete
HP E27k G5 4K USB-C Monitor	6N4C4AA	
HP E27k G5 4K USB-C Monitor	6N4C4AS	
HP E27k G5 4K USB-C Monitor	6N4C4E9	
HP E27m G4 QHD USB-C Conferencing Monitor	40Z29AA	
HP E27m G4 QHD USB-C Conferencing Monitor	40Z29AS	
HP E27m G4 QHD USB-C Conferencing Monitor	40Z29E9	
HP E27u G5 QHD USB-C Monitor	6N4D3AA	
HP E32k G5 4K USB-C Monitor	6N4D6AA	
HP E32k G5 4K USB-C Monitor	6N4D6AS	
HP E32k G5 4K USB-C Monitor	6N4D6E9	

HP E32k G5 4K USB-C PVC Free Monitor	6N4D6A5	
HP E45c G5 DQHD Curved Monitor	6N4C1AA	
HP E45c G5 DQHD Curved Monitor	6N4C1AS	
HP E45c G5 DQHD Curved Monitor	6N4C1E9	

Business LCD Monitors

HP P204v 19.5-inch Monitor	5RD66A7	
HP P204v 19.5-inch Monitor	5RD66AA	

P-Series

HP P22a G5 FHD Monitor - P22a	8D5J1AA	obsolete
HP P22a G5 FHD Monitor - P22a	8D5J1L9	obsolete
HP P22b G5 FHD Monitor - P22b	8D5K4AA	obsolete
HP P22h G5 FHD Monitor	64W30AA	
HP P24a G5 FHD Monitor - P24a	8D5J5AA	obsolete
HP P24a G5 FHD Monitor - P24a	8D5J5L9	obsolete
HP P24h G5 FHD Monitor	64W34AA	
HP P27 G5 FHD Monitor	64X69AA	
HP P27h G5 FHD Monitor	64W41AA	
HP P34hc G4 WQHD USB-C Curved Monitor	21Y56A7	
HP P34hc G4 WQHD USB-C Curved Monitor	21Y56AA	
HP P34hc G4 WQHD USB-C Curved Monitor	21Y56AS	

Series 3 Pro

HP Series 3 Pro 21.45 inch FHD Monitor - 322pv	9U5A2A6	
HP Series 3 Pro 21.45 inch FHD Monitor - 322pv	9U5A2AA	
HP Series 3 Pro 21.45 inch FHD Monitor - 322pv	9U5A2AS	
HP Series 3 Pro 21.45 inch FHD Monitor - 322pe	AK2F1AS	
HP Series 3 Pro 21.45 inch FHD Monitor - 322pe	AK2F1UT	
HP Series 3 Pro 21.5 inch FHD Monitor - 322pf	9U5B0AF	
HP Series 3 Pro 21.5 inch FHD Monitor - 322pf	9U5B0AS	
HP Series 3 Pro 21.5 inch FHD Monitor - 322pf	9U5B0UT	
HP Series 3 Pro 21.5 inch FHD Monitor 322ph	B0BN7AF	
HP Series 3 Pro 21.5 inch FHD Monitor 322ph	B0BN7AS	
HP Series 3 Pro 21.5 inch FHD Monitor 322ph	B0BN7UT	
HP Series 3 Pro 23.8 inch FHD Monitor - 324pe	B1GM5AA	

HP Series 3 Pro 23.8 inch FHD Monitor - 324pe	B1GM5AF
HP Series 3 Pro 23.8 inch FHD Monitor - 324pe	B1GM5AS
HP Series 3 Pro 23.8 inch FHD Monitor - 324pf	9U5J5AF
HP Series 3 Pro 23.8 inch FHD Monitor - 324pf	9U5J5AS
HP Series 3 Pro 23.8 inch FHD Monitor - 324pf	9U5J5UT
HP Series 3 Pro 23.8 inch FHD Monitor - 324ph	B0BU9AF
HP Series 3 Pro 23.8 inch FHD Monitor - 324ph	B0BU9AS
HP Series 3 Pro 23.8 inch FHD Monitor - 324ph	B0BU9UT
HP Series 3 Pro 23.8 inch FHD Monitor - 324pv	9U5C1A6
HP Series 3 Pro 23.8 inch FHD Monitor - 324pv	9U5C1AA
HP Series 3 Pro 23.8 inch FHD Monitor - 324pv	9U5C1AS
HP Series 3 Pro 23.8 inch FHD Monitor - 324pb	B22BDAA
HP Series 3 Pro 27 inch FHD Monitor - 327pe	B1GM6AA
HP Series 3 Pro 27 inch FHD Monitor - 327pe	B1GM6AF
HP Series 3 Pro 27 inch FHD Monitor - 327pe	B1GM6AS
HP Series 3 Pro 27 inch FHD Monitor - 327pf	B0CG3AF
HP Series 3 Pro 27 inch FHD Monitor - 327pf	B0CG3AS
HP Series 3 Pro 27 inch FHD Monitor - 327pf	B0CG3UT
HP Series 3 Pro 27 inch FHD Monitor - 327ph	B0CG8AF
HP Series 3 Pro 27 inch FHD Monitor - 327ph	B0CG8AS
HP Series 3 Pro 27 inch FHD Monitor - 327ph	B0CG8UT

Series 5 Pro

HP Series 5 23.8 inch FHD Monitor - 524da	B11W5AT
HP Series 5 27 inch FHD Monitor - 527da	B11W6AS
HP Series 5 27 inch FHD Monitor - 527da	B11W6AT
HP Series 5 Pro 14 inch WQXGA Portable Monitor - 514pn	B88JWAA
HP Series 5 Pro 14 inch WQXGA Portable Monitor - 514pn	B88JWAS
HP Series 5 Pro 14 inch WQXGA Portable Monitor - 514pn	B88JWE9
HP Series 5 Pro 23.8 inch FHD Monitor - 524pf	9D9L6AL
HP Series 5 Pro 23.8 inch FHD Monitor - 524pf	9D9L6AS
HP Series 5 Pro 23.8 inch FHD Monitor - 524pf	9D9L6E9
HP Series 5 Pro 23.8 inch FHD Monitor - 524pf	9D9L6L9
HP Series 5 Pro 23.8 inch FHD Monitor - 524pf	9D9L6UT
HP Series 5 Pro 23.8 inch FHD Monitor - 524pf PVC Free	9D9L6A5
HP Series 5 Pro 23.8 inch FHD Monitor (Made in VN) - 524pf	B46LQAA

HP Series 5 Pro 23.8 inch FHD No Stand Monitor - 524pf	9D9L6A9
HP Series 5 Pro 23.8 inch FHD No Stand Monitor - 524pf	9D9L6U9
HP Series 5 Pro 23.8 inch FHD USB-C Conferencing Monitor - 524pm	9E0G9UT
HP Series 5 Pro 23.8 inch FHD USB-C Conferencing Monitor - 524pm PVC Free	9E0G9A5
HP Series 5 Pro 23.8 inch FHD USB-C Monitor - 524pu	9D9V7AA
HP Series 5 Pro 23.8 inch FHD USB-C Monitor - 524pu	9D9V7AS
HP Series 5 Pro 23.8 inch FHD USB-C Monitor - 524pu	9D9V7E9
HP Series 5 Pro 23.8 inch FHD USB-C Monitor - 524pu PVC Free	9D9V7A5
HP Series 5 Pro 24 inch WUXGA Monitor - 524pn	9D9A7AA
HP Series 5 Pro 24 inch WUXGA Monitor - 524pn	9D9A7E9
HP Series 5 Pro 24 inch WUXGA Monitor - 524pn	9D9A7U9
HP Series 5 Pro 24 inch WUXGA Monitor - 524pn PVC Free	9D9A7A5
HP Series 5 Pro 24 inch WUXGA Monitor (Made in VN) - 524pn	B41HLAA
HP Series 5 Pro 27 inch FHD Monitor - 527pf	B28F5AS
HP Series 5 Pro 27 inch FHD Monitor - 527pf	B28F5E9
HP Series 5 Pro 27 inch FHD Monitor - 527pf	B28F5UT
HP Series 5 Pro 27 inch FHD Monitor - 527pf PVC Free	B28F5A5
HP Series 5 Pro 27 inch FHD Monitor - 527pf no Stand	B28F5A9
HP Series 5 Pro 27 inch QHD Monitor - 527pq	9D9S0AS
HP Series 5 Pro 27 inch QHD Monitor - 527pq	9D9S0E9
HP Series 5 Pro 27 inch QHD Monitor - 527pq	9D9S0UT
HP Series 5 Pro 27 inch QHD Monitor - 527pq	B3PB7AA
HP Series 5 Pro 27 inch QHD Monitor - 527pq PVC Free	9D9S0A5
HP Series 5 Pro 27 inch QHD No Stand Monitor - 527pq	9D9S0A9
HP Series 5 Pro 27 inch QHD No Stand Monitor - 527pq	9D9S0U9
HP Series 5 Pro 27 inch QHD USB-C Conferencing Monitor - 527pm	9E0Y9UT
HP Series 5 Pro 27 inch QHD USB-C Conferencing Monitor - 527pm PVC Free	9E0Y9A5
HP Series 5 Pro 27 inch QHD USB-C Monitor - 527pu	9E0G5AA
HP Series 5 Pro 27 inch QHD USB-C Monitor - 527pu	9E0G5AS
HP Series 5 Pro 27 inch QHD USB-C Monitor - 527pu	9E0G5E9
HP Series 5 Pro 27 inch QHD USB-C Monitor - 527pu PVC Free	9E0G5A5
HP Series 5 Pro 34 inch WQHD USB-C Conferencing Monitor - 534pm	9E0Z2UT
HP Series 5 Pro 34 inch WQHD USB-C Conferencing Monitor - 534pm PVC Free	9E0Z2A5
HP Series 5 Pro 49 inch DQHD Conferencing Monitor - 549pm	B7GV8A5
HP Series 5 Pro 49 inch DQHD Conferencing Monitor - 549pm	B7GV8AA
HP Series 5 Pro 49 inch DQHD Conferencing Monitor - 549pm	B7GV8AS

HP Series 5 Pro 49 inch DQHD Conferencing Monitor - 549pm	B7GV8E9

Series 7 Pro

HP Series 7 Pro 23.8 inch FHD Monitor - 724pf	8X530AA
HP Series 7 Pro 23.8 inch FHD Monitor - 724pf	8X530E9
HP Series 7 Pro 23.8 inch FHD Monitor - 724pf PVC Free	8X530A5
HP Series 7 Pro 24 inch WUXGA Monitor - 724pn	8X534AA
HP Series 7 Pro 24 inch WUXGA Monitor - 724pn	8X534E9
HP Series 7 Pro 24 inch WUXGA Monitor - 724pn PVC Free	8X534A5
HP Series 7 Pro 24 inch WUXGA USB-C Monitor - 724pu	8Y2F7AA
HP Series 7 Pro 24 inch WUXGA USB-C Monitor - 724pu	8Y2F7E9
HP Series 7 Pro 24 inch WUXGA USB-C Monitor - 724pu PVC Free	8Y2F7A5
HP Series 7 Pro 27 inch 4K Conferencing Monitor - 727pm	8K135AA
HP Series 7 Pro 27 inch 4K Conferencing Monitor - 727pm	8K135E9
HP Series 7 Pro 27 inch 4K Conferencing Monitor - 727pm PVC Free	8K135A5
HP Series 7 Pro 27 inch 4K Thunderbolt 4 Monitor - 727pk	8J9G2AA
HP Series 7 Pro 27 inch 4K Thunderbolt 4 Monitor - 727pk	8J9G2E9
HP Series 7 Pro 27 inch 4K Thunderbolt 4 Monitor - 727pk PVC Free	8J9G2A5
HP Series 7 Pro 27 inch QHD Monitor - 727pq	8J4D8E9
HP Series 7 Pro 27 inch QHD Monitor - 727pq	8J4D8UT
HP Series 7 Pro 27 inch QHD Monitor - 727pq PVC Free	8J4D8A5
HP Series 7 Pro 27 inch QHD Thunderbolt 4 Monitor - 727pu	8J9E6E9
HP Series 7 Pro 27 inch QHD Thunderbolt 4 Monitor - 727pu	8J9E6UT
HP Series 7 Pro 27 inch QHD Thunderbolt 4 Monitor - 727pu PVC Free	8J9E6A5
HP Series 7 Pro 31.5 inch 4K Thunderbolt 4 Monitor - 732pk	8Y2K9AA
HP Series 7 Pro 31.5 inch 4K Thunderbolt 4 Monitor - 732pk	8Y2K9E9
HP Series 7 Pro 31.5 inch 4K Thunderbolt 4 Monitor - 732pk PVC Free	8Y2K9A5
HP Series 7 Pro 34 inch WQHD Conferencing Monitor - 734pm	8K157E9
HP Series 7 Pro 34 inch WQHD Conferencing Monitor - 734pm	8K157UT
HP Series 7 Pro 34 inch WQHD Conferencing Monitor - 734pm PVC Free	8K157A5
HP Series 7 Pro 37.5 inch WQHD+ Thunderbolt 4 Monitor - 738pu	8K167AA
HP Series 7 Pro 37.5 inch WQHD+ Thunderbolt 4 Monitor - 738pu	8K167E9
HP Series 7 Pro 37.5 inch WQHD+ Thunderbolt 4 Monitor - 738pu PVC Free	8K167A5
HP Series 7 Pro 39.7 inch 5K2K Conferencing Monitor - 740pm PVC Free	8Y2R2A5
HP Series 7 Pro 39.7 inch 5K2K Conferencing Monitor-740pm	8Y2R2AA
HP Series 7 Pro 39.7 inch 5K2K Conferencing Monitor-740pm	8Y2R2E9

OMEN by HP Monitors

OMEN 27 inch QHD 165Hz Gaming Monitor - OMEN 27qz	AK2B3AA
OMEN 27 inch QHD 165Hz Gaming Monitor - OMEN 27qz	AK2B3E9

Accessories for PC

Port Replicators/Dongles/Docking

★ : Recommended

Cables/Cable Adapters/Dongles

HP HDMI to VGA Adapter	H4F02AA
HP USB-C to DisplayPort Adapter G2	8Y8Y1AA
HP USB-C to HDMI Adapter	4SH07AA
HP USB-C to USB 3.0 Adapter	N2Z63AA
HP USB-C to VGA Adapter	4SH06AA
HP ZGX 0.5m QSFP112 Ethernet DAC Cable	C20MQAA

Port Replicators

HP USB-C to USB-A Hub	Z6A00AA

Power

Power Adapters

HP ZGX 240W USB-C AC Adapter	CM5A0AA

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