

Lenovo PGX

Version: 1.0 | 05/13/2026

Product Name	PGX
Product Display Name	ThinkStation PGX
Information Date	7-May-26
Hardware Maintenance Manual	PGX HMM
Drivers & Software	PGX Drivers & Software
Available Whitepapers	PGX Whitepapers

SECTION I: Platform Overview

Description	The Lenovo ThinkStation PGX is the first Lenovo workstation accelerated by the NVIDIA GB10 Grace Blackwell Superchip. Purposebuilt to complement your AI workflow, it offers a controlled, sandbox environment for prototyping, fine-tuning, and inferencing—seamlessly integrating into existing workstation setups to boost compute capacity and support models with up to 200B parameters.
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CPU

Processor Support	20-core Arm processor (10 Cortex-X925 + 10 Cortex-A725)
Socket Type	SoC (Soldered)

Operating Systems

Preloaded	Lenovo Custom DGX OS Based on Ubuntu Linux® Pro
Supported	Lenovo Custom DGX OS Based on Ubuntu Linux® Pro

Memory

Slots	Soldered
Channels	16
Type	128GB LPDDR5x Unified System Memory
Speed	Up to 273 GB/s Bandwidth (8533 MT/s)
Max DIMM Size	Soldered
Max System Memory	128GB*
Disclaimers	*can be increased only by clustering multiple units.

Storage

Total Bays/Size	1
PCIe (M.2)	1 x 2242 Gen5 M.2

Video

Integrated Graphics	NVIDIA Blackwell Architecture (GB10)
Multi-GPU Support	No*
Type	SoC (Soldered)
Disclaimers	*can be increased only by clustering multiple units.
Slots	
Front I/O	

Rear I/O

USB	1x USB-C® (USB4® 20Gbps), with USB PD 3.1 (input) and DisplayPort™ 2.1 3x USB-C® (USB4® 20Gbps), with DisplayPort™ 2.1
Audio	HDMI multichannel audio output (Xtensa LX7)
HDMI	1 x HDMI 2.1a
Network Connectivity	1 x 10 GbE RJ-45 2 x 200Gbps QSFP (for connecting two ThinkStation® PGX units)
Included USB Adapter	1 x USB-C to USB-A Adapter*
Disclaimers	*for keyboard or mouse only, additional supported.

Ethernet

Vendor	Realtek / NVIDIA
Speeds	Realtek RTL8127-CG (1 / 2.5 / 5 / 10GbE) NVIDIA CX7 InfiniBand (200GbE)
Functions	PXE, VLAN (Realtek)
Connectors	1 x RJ45 (Realtek) 2 x QSFP (NVIDIA)

Audio

Vendor	NVIDIA
Type	HDMI multichannel audio output (Xtensa LX7)

Thermal

Fans	2 x PGX Blower
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Power Specifications

Power Supply	240W
Power Efficiency	91% Efficient @ 50% Load
Main	USB-C
Operating Voltage Range	100 – 240V
Rated Voltage Range	90-264VAC
Rated Line Frequency	47Hz / 63Hz
Operating Line Frequency Range	50Hz / 60Hz
Rated Input Current	<3.5A @ 100-120V / <2.5A @ 200-240V
Power Supply Fan	No
ENERGY STAR® Qualified (config dependent)	No
Aux Power Drop	No

BIOS

Vendor	AMI
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Chassis Information

Color	Thunder Grey & Eclipse Black
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PSU	240W Autosensing
Thermal Solutions	2 x PGX Blower
Dimensions	50.5mm/1.99" H 150mm/5.91" D 150mm/5.91" W
Weight	1.2 kg / 2.65 lbs

Packaging Dimensions

Height (mm/in)	240mm / 9.4"
Width (mm/in)	420mm / 16.5"
Depth (mm)	130mm / 5.1"
Weight (kgs/lbs)	2.53 kg / 5.57 lbs

Security & Serviceability

TPM	Nuvoton NPCT760AACYX TPM 2.0
Setup Password	Yes
NIC LEDs (integrated)	No
Boot Without Keyboard and/or Mouse	Yes
Access Panel	Bottom Cover 4 x M2 Screws (Under Rubber Foot)
Processor Socket	Soldered
Memory	Soldered
System Board	6 x M2 Screws
Restore CD/DVD/USB Set	Not Included, Restore Media Available via Lenovo Download Recovery Service or available through Lenovo Support.

Operating Environment

Air Temperature	Operating: 10°C – 35°C (50F to 95F)
Storage	Storage: -40°C to 60°C (-40°F to 140°F) in Original Shipping Carton Storage: -10°C to 60°C (14°F to 140°F) Without Carton
Humidity	Relative Humidity Operating: 20% to 80% (non-condensing) Relative Humidity Storage/Transit: 10% to 90% (non-condensing) Wet Bulb Temperature Operating: 25°C (77°F) max Wet Bulb Temperature Non-operating: 40°C (104°F) max
Altitude	Operating: 0m to 3048m (0ft to 10000ft) Storage: 0m to 12,192m (0ft to 40000ft)

Vibration	Package Vibration: Random,1.04G at 2-200 Hz, 1 octave/min Operating Vibration: Random,0.27G at 5-500 Hz, 0.5 octave/min Non-Operating Vibration: Random,1.04G at 2-200 Hz, 1 octave/min
Shock	Operating Shock Wave: Half-sine wave, R/L/F/R = 15G/3ms T/B = 30G/3ms Non-operating Shock Wave: Trapezoidal wave 45G/11ms
Disclaimers	Extended operating temperatures are possible – please contact your Lenovo Rep

SECTION II: Platform Detail

Board Size	140mm x 122mm
Layout	Lenovo Custom

Motherboard Core

Processor Support	Nvidia GB10 BGA2970 SoC
Socket Type	GB10 SoC (Soldered)
Memory Support	128GB LPDDR5 unified system memory (Soldered)
Voltage Regulator	140W TDP
Chipset (PCH)	Nvidia GB10 BGA2970 SoC
Flash	1 x 64Mb
Clock	Real-time clock:32.768 kHz; Oscillator clock: 52MHz
Audio	HDMI multichannel audio output (Xtensa LX7)
Ethernet	Realtek RTL8127 (1 / 2.5 / 5 / 10GbE) – NVIDIA CX7 InfiniBand (200GbE)

Supported Components

Processor Level	NVIDIA® GB10 Grace Blackwell
Processor	NVIDIA 20-core Arm processor (10 Cortex-X925 + 10 Cortex-A725)
Memory Type	LPDDR5x unified system memory
Memory	128GB LPDDR5 / 273 GB/s bandwidth (8533 MT/s)

Storage

M.2 PCIe Solid State Drive (SSD)	1TB SSD M.2 2242 Gen4 TLC OPAL 4TB SSD M.2 2242 Gen4 TLC OPAL
RAID	
Optical Drive/Removable Media	
Disclaimers	
Keyboard and Pointing Devices	
Expansion Bays	

PCIe Adapters

WiFi Cards	AzureWave AW-EM637-NV Wi-Fi 7 / Bluetooth™ 5.3 LE*
Disclaimers	* not removable or replaceable.