

Lenovo P16s Gen 4 AMD

Version: 2.0 | 10/16/2025

Product Name	P16s Gen 4 AMD							
Product Display Name	P16s Gen 4 AMD							
Information Date	23-Apr-24							

SECTION I: Platform Overview

Description		The Lenovo ThinkPad P16s AMD combines premium performance and portability with advanced AI experiences for professionals managing complex							
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		workloads on-the-go.							
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CPU

Processor Support		AMD Krackan Point Ryzen AI 7 PRO 350 & Ryzen AI 5 PRO 340 AMD Strix Point Ryzen AI 9 HX PRO 370							
Socket Type		BGA							
Disclaimers									

Operating Systems

Preloaded		Windows 11 Pro 64 (Win11 2024) Windows 11 Home 64 Windows 11 Home Chinese Language Edition 64 Ubuntu Fedora							
Supported		Windows 11 Pro 64 (Win11 2024) Windows 11 Home 64 Windows 11 Home Chinese Language Edition 64 Ubuntu							

		Fedora Redhat							
Disclaimers									

Memory

Number of DIMM Slots		2 SoDIMM slot							
Channels		Quad 32b channels							
Type		DDR5							
ECC Support		No							
Speed		5600MT/S							
Max DIMM Size		48GB							
Max System Memory		96GB							
Min System Memory		16GB							
Soldered Memory		NO							
Disclaimers									

Storage

Storage Slots		1 x PCIe Gen 4 M.2 2280							
SATA		/							
PCIe		Solid State Drive, OPAL2 PCIe-NVMe							

Display

Resolutions		FHD+/WQU XGA OLED							
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Camera

Resolution		5MP RGB+IR/ 5MP RGB							
Frames per Second		30 fps							
Focus		Fixed 50cm							
Camera Interface		USB 2.0							
IR Camera		Yes (optional)							

Keyboard

Number of Keys		US : 105 / UK : 106 / JP : 110							
Numpad		Yes							
Size		100% ISO							
Function Key Features		Yes							
Backlit		Yes							
Keyboard size		CS25 Top mount Shrunken 15.6" KBD w/ Numeric Pad							
Key stroke		1.5mm							

Key pitch		19.05mm							
Keyboard backlight		Optional							
Keyboard thickness		Standard							

TrackPad / Fingerprint Reader

TrackPoint Details		COMO TrackPoint module (t5.5mm)							
Finger Print Reader Model		Synaptics Metallica 8x8 FPR, MoC							
Multi-Touch		Yes							
Resolution		1000 ppi							
TrackPad/TouchPad thickness		3.3mm							
TrackPad/TouchPad type		3 BCP							
TrackPad size		115mm x 61mm							
TrackPad material/finish		Mylar surface							

I/O – Ports and Connectors

USB		2x USB-A 3.2 (Gen 1) (1 powered)							
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Ethernet

Vendor		Realtek							
Count		x1							
EEPROM		SPI ROM (Merge with BIOS/MEFW)							
Speeds		10/100/1000 Mbps							
Functions		Wake On LAN MAC Address Pass Through PXE Boot Flash Over LAN							
Connectors		RJ45							
Disclaimers									

WWAN

Model		Optional :5G Module Quectel RM520N-G							
Disclaimers									

Near Field Communications

Model		Yes, optional							
Disclaimers									

Audio

Vendor		Realtek							
Type		High Definition Audio Codec							
Internal Speaker		Yes, dual speakers							
Connectors		Microphone & Headphone Combo Jack (3.5mm)							
Chipset		ALC3287							
Number of Channels		4-channel DAC, 4-channel ADC							
Number of Bits/Audio Resolution		16/20/24-bit PCM format							
Sampling Rate (Recording/ Playback)		n							
Signal to Noise Ratio		90dB Signal-to-Noise Ratio (A-weighting) for ADC input. 100dB Signal-to-Noise Ratio (A-weighting) for DAC output							
Analog Audio		None							
Dolby		Yes							

Digital									
Digital Out (S/PDIF)		No							
Speaker Power Rating		2W@4ohm/ch							
Disclaimers									

Power adapter

Type		100W AC Adapter	PD 65W 2cable 110cc PCC90% 3pin	49cc GAN 65W PD3.0 USB-C, Wall Mount	80cc GAN 65W PD3.0 USB-C				
Dimensions		108mm x 56mm x 26.5mm	90x46x26.5 mm	47x35x30mm	75.7x48x22 mm				
Input Voltage		100-240V	100-240V	100-240V	100-240V				
Disclaimers									

Security

TPM		Yes, TPM2.0							
Asset ID		Yes							
AMD Pro Technology		Yes							
Disclaimers									

Chassis Information

Format		Ultralim Notebook							
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Security & Serviceability

Hardware Maintenance Manual									
Drivers & Software									
Self Healing BIOS		Yes							
Access Panel		Removeable bottom cover							
Number of Screws		8							
Swappable Components		Base cover assembly, TrackPoint pointing stick, Lenovo factory recovery USB key, Power cord, ac power adapter (65W)							
Storage Slots		1 storage slot							
Memory		1 soldered down RAM							
System Board		1190 System Board. No self-service CRU.							
Restore CD/DVD/USB Set		None. Purchase via Lenovo Customer Support Center							
Cable Lock Support		Security-lock slot							

Power-On Password		Yes							
Hard Disk Password		Yes; User and Master hard disk password							
Supervisor Password		Yes							
NIC LEDs (integrated)		Yes (if it means the LED for Ethernet)							
Security Chip		Yes (for TMP 2.0)							
Access Panel Key Lock		Bottom Cover Tamper Detection							
Boot Sequence Control		Yes							
Disclaimers									

Operating Environment

Operating – Air Temperature		At altitudes up to 2438 m (8000 ft) – Operating: 5°C to 35°C (41°F to 95°F)							
Non Operating – Air Temperature		At altitudes up to 2438 m (8000 ft) – Storage: 5°C to 43°C (41°F to 109°F)							
Humidity		Operating: 8% to 95% at wet-bulb							

		temperature 23°C (73°F) Storage: 5% to 95% at wet-bulb temperature 27°C (81°F)							
Corrosive Gas		G1							
Particulates		P1							
Disclaimers									

SECTION II: Platform Detail

Supported Components

Processor		AMD Krackan Point Ryzen AI 5 PRO 340 AMD Krackan Point Ryzen AI 7 PRO 350 AMD Strix Point Ryzen AI 9 HX PRO 370							
Memory Support		DDR5 5600MT/S							
Chipset (PCH)		Integrated Soc							
Size of BIOS Flash		64 MB							
Super I/O		N/A							

Clock		Crystal							
Audio		Realtek High Definition Audio							
Ethernet		Realtek RTL8111EPV							
Notes									
Disclaimers									

Memory

System Capacity Options		Upto 96GB							
non-ECC		Yes							
Brand of non-ECC Memory		Samsung/Ramaxe/Sk Hynix/Micron							
ECC		None							
Brand of ECC Memory		N/A							
Memory clock frequency(MHz)		DDR5 5600 MT/S							
Disclaimers									

Storage

2.5" SAS Hard Disk Drive (HDD)		None							
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2.5" SATA Hard Disk Drive (HDD)		None							
2.5" SATA Solid State Drive (SSD)		None							
M.2 (NGFF) PCIe Solid State Drive (SSD)		256GB Opal 2 PCIe G4 NVMe M.2 2280 512GB Opal 2 PCIe G4 NVMe M.2 2280 512GB Opal 2 PCIe G4 NVMe Performance M.2 2280 1TB Opal 2 PCIe G4 NVMe M.2 2280 1TB Opal 2 PCIe G4 NVMe Performance M.2 2280 2TB Opal 2 PCIe Gen4 Performance NVMe M.2 2280							
2.5" PCIe Solid State Drive (SSD)		None							
Brand of Drive		Samsung WD Hynix Kioxia Micron							
Intel Optane Storage Technology		No							
RAID		Not Supported							

RAID Level and Requirements									
Disclaimers									

Removeable Media

Media Card Reader Specifications		N/A							
Disclaimers									

SECTION III: Supported Component Detail

CPU Specifications

CPU		AMD Krackan Point Ryzen AI 5 PRO 340	AMD Krackan Point Ryzen AI 7 PRO 350	AMD Strix Point Ryzen AI 9 HX PRO 370					
Integrated Graphics		AMD Radeon™ 840M	AMD Radeon™ 860M	AMD Radeon™ 890M					
# of Cores		6 cores	8 cores	12 Cores					
# of Threads		12	16	24					
Processor Base Frequency		2.0GHz	2.0GHz	2.0GHz					
Max Turbo Frequency		4.8GHz	5GHz	5.1GHz					

Cache		22MB	24MB	36MB					
TDP		29W	29W	29W					
AMD Spec Link									
Disclaimers									

Display Specifications

Model		WUXGA	WUXGA w/oncell touch	WUXGA low power	WQUXGA				
Resolution		1920 x 1200	1920 x 1200	1920 x 1200	3840×2400				
Diagonal		16"	16"	16"	16"				
Aspect Ratio		Ratio 16:10	Ratio 16:10	Ratio 16:10	Ratio 16:10				
Backlight		LED	LED	LED	No Backlight				
PPI		142	142	142	283				
Active Area		344.68 x 215.42	344.68 x 215.42	344.68 x 215.42	344.45 x 215.28				
Refresh Rate		60Hz	60Hz	60Hz	60Hz				
Contrast Ratio		800:1 (TYP)	800:1 (TYP)	1000:1 (TYP)	100000:1				
Viewing Angle		85/85/85/85 degree	85/85/85/85 degree	89/89/89/89 degree	170 degree				
Color gamut		45% NTSC	45% NTSC	100% sRGB	100% DCI-P3				
Brightness		400nit	400nit	500nit	400nit				
Contrast		800:1 (TYP)	800:1 (TYP)	1000:1 (TYP)	100000:1				
Color Depth		16.7M	16.7M	16.7M	1074M				
Interface		eDP 1.2	eDP 1.2	eDP 1.4	eDP 1.4b				

HDD Performance

Spindle Speed(RPM)		N/A							
Power off to Spindle Stop(sec)		N/A							
DC Power to Drive Ready(sec)		N/A							
Receipt of Start Unit Command to Drive Ready(sec)		N/A							
Average Latency(ms ec)		N/A							
Disclaimers									

HDD Power Management

Input (VDC)		N/A							
Typical (Watts)		N/A							
Idle (Watts)		N/A							
Disclaimers									

HDD Dimensions

Height (mm – Max)		N/A							
Width (mm)		N/A							
Depth (mm – Max)		N/A							

Weight (grams)		N/A							
Disclaimers									

HDD Temperature

Operating(C) Ambient		N/A							
Operating(C) Base Casting		N/A							
Non-Operating(C) Ambient		N/A							
Gradient(C per Hour)		N/A							
Disclaimers									

HDD Shock

Operating(G s @ 2ms)		N/A							
Non-Operating(G s @ 2ms)		N/A							
Disclaimers									

SSD Specifications

2.5" SATA Solid State Drive (SSD)		N/A							
M.2 (NGFF) PCIe Solid		1x M.2 2280 PCIe Gen4							

State Drive (SSD)									
2.5" PCIe Solid State Drive (SSD)		N/A							
Intel Optane Storage Technology		N/A							
Disclaimers									

Solid State Storage Devices

Supported Types		M.2							
Dimensions inches/centimeters (W x D x H)		22.0 (+-0.15) x 80.0 (+-0.15) x 2.3 (max)							
Size		M.2 2280S3							
Interface Type		PCIe NVMe Gen4							
Read/Write IOPS Specifications		Performance PCIe Gen4 Read: 700k (2TB), 600k (1TB) Write: 600k (2TB, 1TB) Value PCIe Gen4 Read: 300k (1TB), 250k (512GB), 200k (256GB) Write: 240k (1TB, 512GB), 190k (256GB)							
Bandwidth Performance		PCIe Gen4 x 4 (16Gbps)							

Power Consumption (Max)		3.0A (10us average)							
Active(AVG)		5W							
Idle		5mW (L1.2)							
Min MTBF		2'000'000							
Min Sequential Read		Performance PCIe Gen4 6400MB/s (2TB, 1TB) Value PCIe Gen4 3500MB/s (1TB, 512GB), 3200MB/s (256GB)							
Min Sequential Write		Performance PCIe Gen4 5000MB/s (2TB), 4400MB/s (1TB) Value PCIe Gen4 2900MB/s (1TB), 2500MB/s (512GB), 1800MB/s (256GB)							
Hardware Encryption		Yes							
Disclaimers									

Discrete Graphics Adapter

GPU Name		N/A							
CUDA Processing Cores		N/A							

GPU Memory		N/A							
Memory Bandwidth		N/A							
Memory Type		N/A							
Memory Interface		N/A							
TGP Max Power Consumption		N/A							
Display Port		N/A							
OpenGL		N/A							
Shader Model		N/A							
DirectX		N/A							
PCIe Generation		N/A							
Floating-Point Performance		N/A							
VR Ready		N/A							
Simultaneous Multi-Projection		N/A							
NVIDIA FXAA/TXAA Antialiasing		N/A							
NVIDIA nView Display Management Technology		N/A							
GPU Direct for Video		N/A							

Vulkan Support		N/A							
NVIDIA Optimus		N/A							
Disclaimers									

WLAN

Model		MTK MT7925							
Connector: Main, Aux/GNSS, GNSS		ANT1:AUX WiFi + BT; ANT2: Main WiFi							
Antenna Diversity		Supported							
MIMO		Not supported							
GNSS Bian		N/A							
Radio ON/OFF Control		Supported							
Connector interface		PCIE							
Operating Temperature (Adapter Shield)		0c to +80c							
Humidity Non- Operating		50%~90% Rh non condensing (at temperatures of 25c to 35c)							
Operating Systems		Microsoft Windows 11, Linux							
Wi-Fi Alliance		Wi-Fi CERTIFIED*							

		a/b/g/n/ac, WMM*, WMM-PS*, WPA*, WPA2*, WPS2*, Protected Management Frames, Wi-Fi Direct* for peer to peer device connections, Wi-Fi Miracast* as Source.						
IEEE WLAN Standard		IEEE 802.11a/b/g/n/ ac, 802.11d, 802.11e, 802.11h, 802.11i, 802.11w; 802.11r, 802.11k, 802.11v pending OS support; Fine Timing Measurement based on 802.11REVmc						
Roaming		Support seamless roaming between access points						
Bluetooth*		Dual Mode Bluetooth® 5.3						
Authenticatio n		WPA and WPA2, 802.1X (EAP-TLS, TTLS, PEAP, LEAP, EAP- FAST), EAP- SIM, EAP- AKA, EAP- AKA						
Authenticatio n Protocols		PAP, CHAP, TLS, MS-						

		CHAP*, MS-CHAPv2						
Encryption		64-bit and 128-bit WEP, 128-bit AES-CCMP						
Regulatory		For a list of country approvals, please contact your local Intel representatives.						
US Government		FIPS10, FISMA						
Product Safety		UL,C-UL,CB (IEC 60950-1)						
Disclaimers		Bluetooth may be limited by OS						

Battery

Dimension		300mm*83.3mm*6.2mm	300mm*83.3mm*6.45mm						
Weight		223g	320g						
Type (Chemistry and Cell)		Li-ion Polymer	Li-ion Polymer						
Voltage		15.44V ~ 15.48V	15.44V ~ 15.48V						
Battery Life									
Battery Capacity		Integrated 4-cell 52.5Wh battery	Integrated 4-cell 86Wh battery						
Charging Time		0% to 100% 0% to 80%	0% to 100% 0% to 80%						

		Battery Charging Time (in-operation) 2.39hr Battery Charging Time (off) 1.98 hr 0.99 hr	Battery Charging Time (in-operation) 2.03 hr Battery Charging Time (off) 1.93 hr 0.93 hr						
Operating Temperature Range		between 10°C (50°F) and 35°C (95°F)	between 10°C (50°F) and 35°C (95°F)						
Warranty		1 Year / 3 Year Available	1 Year / 3 Year Available						
Coin Cell Battery (Model)		CR2016	CR2016						
Disclaimers									

SECTION IV: BIOS / Certifications / Standards / Environmental

BIOS Specifications

WMI Support		Yes, if it is BIOS Setup change by WMI.							
ROM-Based Setup Utility (F1)		Yes							
Bootblock Recovery		N/A							
Replicated Setup		Yes, it supported with							

		SRSETUP tool.							
Boot Control		Yes, it means Boot order change.							
Discrete Mode									
Memory Change Alert		N/A							
Thermal Alert		N/A							
Asset Tag		Yes							
System/Emergency ROM Flash Recovery with Video		N/A							
Remote Wakeup/Remote Shutdown		Yes, if Remote wakeup is Wake on LAN from S4/S5.							
Keyboard-less Operation		N/A							
Per-port Control		Yes, if it is I/O port enable/disable by BIOS Setup.							
Adaptive Cooling		Yes, if it is thermal & fan control.							
Security		Yes, BIOS password / Hard disk password / Finger print							
AMD KVM		Yes							

AMD Platform Security Processor		Yes							
Memory Modes		N/A							
UEFI							Unified Extensible Firmware Interface 2.7		

EMC & Safety

EMC		Published, Certified Existing Reports EMC – Australia EMC – Canada EMC – China EMC – EU/EFTA EMC – Japan EMC – New Zealand EMC – South Korea EMC – Taiwan EMC – USA/Territories Not Applicable / Not Required EMC – Israel EMC – Moldova EMC – Serbia EMC – Turkey EMC – Uzbekistan EMC – Vietnam							
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Safety		To access the latest User Guide and Safety and Warranty Guide, go to: https://support.lenovo.com Low Halogen Declaration of Conformance TNOT-2017-0040 Section 9 – Low Halogen Scorecard Izod Test – EPEAT Compliant Homologation PCRB Compliant In the following countries: Albania, Algeria, Andorra, Angola, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Azerbaijan, Bahamas, Bahrain, Bangladesh, Barbados, Belarus, Belize, Benin, Bermuda, Bolivia, Botswana, Burkina Faso,							
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Burundi,
Cambodia,
Cameroon,
Canada,
Cape Verde,
Cayman
Islands,
Central
African
Republic,
Chad, China,
Colombia,
Comoros,
Congo,
Costa Rica,
Djibouti,
Dominican
Republic,
Egypt, El
Salvador,
Eritrea,
Ethiopia,
EU/EFTA,
Fiji, Gabon,
Gambia,
Georgia,
Ghana,
Grenada,
Guatemala,
Guinea,
Haiti,
Honduras,
Hong Kong,
India,
Indonesia,
Israel,
Jamaica,
Japan,
Jordan,
Kazakhstan,
Kenya,
Kuwait,
Laos,
Lebanon,
Liberia,
Macao,
Madagascar
, Malawi,
Malaysia,
Mali,
Mauritania,
Mauritius,
Mexico,
Moldova,
Mongolia,

		Morocco, Mozambique, Namibia, Nepal, New Zealand, Nicaragua, Niger, Nigeria, Oman, Pakistan, Panama, Papua New Guinea, Paraguay, Peru, Philippines, Qatar, Russia, Saudi Arabia, Senegal, Serbia, Seychelles, Sierra Leone, Singapore, South Africa, South Korea, Sri Lanka, Swaziland, Taiwan, Tajikistan, Tanzania, Thailand, Togo, Tunisia, Turkey, Turkmenist an, Uganda, Ukraine, United Arab Emirates, Uruguay, USA/Territor ies, Uzbekistan, Venezuela, Vietnam, Zambia, Zimbabwe, Brazil – Inmetro 170 Govt Bids,						
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		Guinea-Bissau, Lesotho							
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Environmentals

Energy Star		ENERGY STAR® Version 9.0 For more information about ENERGY STAR, go to: https://www.energystar.gov							
EPEAT		EPEAT Declaration of Conformance For Machine Types: 20S4, 20S5							
IT ECO declaration		The latest environmental information about Lenovo products is available at: https://www.lenovo.com/ecodeclaration							
Hazardous Substances		The latest environmental information about Lenovo products is available at: https://www.lenovo.com/ecodeclaration							

		on European Union RoHS. This Lenovo product, with included parts (cables, cords, and so on) meets the requirements of Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment ("RoHS recast" or "RoHS 2"). For more information about Lenovo worldwide compliance on RoHS, go to: https://www.lenovo.com/rohs-communication							
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Manageability

Industry Standard Specifications		This product meets the following industry standard							
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		specifications for manageability functionality : Intel LAN with AMT							
Remote Manageability Software Solutions		Lenovo ThinkManagement Console Microsoft System Center Configuration Manager LANDesk Management Suite for ThinkVantage Technologies (www.landesk.com/lenovo)							
System Software Manager		Lenovo ThinkPad supports software management tools from the Lenovo Vantage System Update suite: System Update Update Retriever							
Service, Support, and Warranty		On-site Warranty and Service: Three-years, limited warranty and service offering delivers on-							

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