

Lenovo P16s Gen 5 AMD

Version: 1.0 | 03/16/2026

Product Name

Product Display Name	P16s Gen 5 AMD
Information Date	16-Mar-26

SECTION I: Platform Overview

Description	The Lenovo ThinkPad P16s Gen 5 AMD takes mainstream mobile workstations to the next level, combining breakthrough performance with exceptional portability.
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CPU

Processor Support	AMD Gorgon Point Ryzen AI 9 HX PRO 470 Ryzen AI 7 PRO 450 Ryzen AI 5 PRO 440
Socket Type	BGA
Disclaimers	

Operating Systems

Preloaded	Windows 11 Pro 64 (Win11 25H2) Windows 11 Home 64 Windows 11 Home Chinese Language Edition 64 Ubuntu (V24.04) Fedora
Supported	Windows 11 Pro 64 (Win11 25H2) Windows 11 Home 64 Windows 11 Home Chinese Language Edition 64 Ubuntu(V24.04) Fedora Redhat
Disclaimers	

Memory

Number of DIMM Slots	1 slot
Channels	Dual channel
Type	LPCAMM2
ECC Support	No
Speed	8533 MT/s (System 7500MT/s)
Max DIMM Size	96GB
Max System Memory	96GB
Min System Memory	16GB
Soldered Memory	NO
Disclaimers	

Storage

Storage Slots	1 slot
SATA	NO
PCIe	Solid State Drive, OPAL2 PCIe-NVMe Gen 4 /Gen5 M.2 2280- TLC
SAS	None
Interface	PCIe Gen 4/ Gen5
Security	PCIE
Optional Hard Disk Drive Controllers	OPAL2 for NVMe SSD
Disclaimers	

Video

Integrated Graphics	AMD Radeon™ 890M (Ryzen AI 9 HX PRO 470) AMD Radeon™ 860M (Ryzen AI 7 PRO 450) AMD Radeon™ 840M (Ryzen AI 5 PRO 440)
Discrete Graphics	NV RTX PRO 500 NV RTX PRO 1000 NV RTX PRO 2000
Adapter	None
Bus Interface	PCIE Gen4
Disclaimers	

Display

Resolutions	FHD+ / 2.8k OLED
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Camera

Resolution	5M
Frames per Second	30 fps
Focus	FF 50cm(fixed focus)
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	CS26 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	TrackPoint height 4.6mm
Finger Print Reader Model	Synaprics Metallica 8x8 FPR, MoC
Multi-Touch	Yes
Resolution	1000 ppi
TrackPad/TouchPad thickness	3.6mm
TrackPad/TouchPad type	2 button ClickPad (Follow UE Spec) large full module & VB2
TrackPad size	115mm x 66.6mm
TrackPad material/finish	TP 3 Buttons (Follow UE Spec).

I/O – Ports and Connectors

USB	2x USB-A 3.2 (Gen 1) (1 powered)
Thunderbolt	2x Thunderbolt 4 (USB 4/USB-C 3.2 Gen 2/DP2.1/PD)

HDMI	1x HDMI 2.1 TMDS up to 4K/60Hz
Audio Combo Jack	1x Microphone & Headphone Combo Jack (3.5mm)
Media Card Reader	SD Card Reader (SD Card 7.0 support)
Smart Card Reader	Yes (optional)
Power Connector	TYPE-C
Docking Port	N/A, Just USB-C Docking
VirtualLink	None
Network adapter	Gigabit Ethernet (RJ45)
Disclaimers	

Power Connector

Main	TYPE-C
USB-C	2 x USB3.0 and 2 x USB-C
Disclaimers	

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	5G Foxconn SDX61
Disclaimers	

Near Field Communications

Model	Yes, optional
Disclaimers	

Audio

Vendor	Realtek
Type	Soundwire codec
Internal Speaker	Yes, dual speakers
Connectors	Microphone & Headphone Combo Jack (3.5mm)
Chipset	ALC3346
Number of Channels	3 stereo DACs, 2 stereo ADC
Number of Bits/Audio Resolution	16/20/24-bit PCM format
Sampling Rate (Recording/Playback)	n
Signal to Noise Ratio	94dB Signal-to-Noise Ratio (A-weighting) for ADC input. 99dB Signal-to-Noise Ratio (A-weighting) for DAC output
Analog Audio	None
Dolby Digital	Yes
Digital Out (S/PDIF)	No
Speaker Power Rating	2W@4ohm/ch
Disclaimers	

Power adapter

Type	100W AC Adapter	140W AC Adapter
Dimensions	108mm x 56mm x 26.5mm	120×62.5x22mm
Input Voltage	100-240V	100-240V
Disclaimers		

Security

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

Chassis Information

Format	Ultraslim Notebook
Color	Eclipse Black
Thermal Solutions	Internal dual FAN, Intelligent Cooling

Dimensions	Length 357.9 mm 14.09 in Width 247.9 mm 9.75 in Height Front 11.45 mm / 0.45 in Rear : 18.15 mm / 0.71 in Maximum: 23.3 mm / 0.87 in
Weight	Starting weight UMA 1.789kg / 3.94 lbs
Disclaimers	

Packaging Parameters

Height (mm)	322
Height (inch)	12.7
Width (mm)	503
Width (inch)	19.8
Depth (mm)	76
Depth (inch)	3
Weight (kgs)	0.68 The total weight of the packaging materials
Weight (lbs)	1.5 The total weight of the packaging materials
Disclaimers	

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 X LPCAMM2
System Board	1190 System Board. No self-service CRU.
Restore CD/DVD/USB Set	NO
Cable Lock Support	Nano Saver Lock
Power-On Password	Yes
Hard Disk Password	Yes; User and Master hard disk password

Supervisor Password	Yes							
NIC LEDs (integrated)	No LED							
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 Gorgon Point Ryzen AI 9 HX PRO 470 Ryzen AI 7 PRO 450 Ryzen AI 5 PRO 440
Memory Support	LPCAMM2
Chipset (PCH)	Integrated Soc
Size of BIOS Flash	64 MB
Super I/O	N/A
Clock	Crystal
Audio	Realtek Sound wire
Ethernet	Realtek RTL8111EPV
Notes	
Disclaimers	

Memory

System Capacity Options	Upto 96GB
non-ECC	Yes
Brand of non-ECC Memory	Samsung/Ramaxel/Sk Hynix/Micron
ECC	None
Brand of ECC Memory	N/A
Memory clock frequency(MHz)	8533 MT/s (System speed 7500MT/s)
Disclaimers	

Storage

2.5" SAS Hard Disk Drive (HDD)	None
2.5" SATA Hard Disk Drive (HDD)	None
2.5" SATA Solid State Drive (SSD)	None
M.2 (NGFF) PCIe Solid State Drive (SSD)	512GB Opal 2 PCIe G4 NVMe M.2 2280 512GB Opal 2 PCIe G5 NVMe Performance M.2 2280 1TB Opal 2 PCIe G4 NVMe M.2 2280 1TB Opal 2 PCIe G5 NVMe Performance M.2 2280 2TB Opal 2 PCIe Gen5 Performance NVMe M.2 2280 4TB Opal 2 PCIe Gen5 Performance NVMe M.2 2280
2.5" PCIe Solid State Drive (SSD)	None
Brand of Drive	Samsung SanDisk Hynix KIOXIA(Async) UnionMem 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 Gorgon Point Ryzen AI 5 PRO 440	AMD Gorgon Point Ryzen AI 7 PRO 450	AMD Gorgon Point Ryzen AI 9 HX PRO 470
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	5.1GHz	5.2GHz
Cache	22MB	24MB	36MB
TDP	29W	29W	29W
AMD Spec Link	https://www.amd.com/en/products/processors/laptop/ryzen-pro/ai-400-series/amd-ryzen-ai-5-pro-440.html	https://www.amd.com/en/products/processors/laptop/ryzen-pro/ai-400-series/amd-ryzen-ai-7-pro-450.html	https://www.amd.com/en/products/processors/laptop/ryzen-pro/ai-400-series/amd-ryzen-ai-9-hx-pro-470.html
Disclaimers			

Display Specifications

Model	16" 16:10 WUXGA(1920*1200) IPS 400nit NTSC45%, 60Hz 3.2t Bent, Non-touch	Low Power WUXGA (1920x1200)16:10 IPS ,Touch ,500nit, 60Hz, 100% sRGB, AG, AICCP, Eyesafe	2.8k (2880x1800) OLED 16:10 500nit ,120Hz, 100%DCI-P3,AG,Eyesafe, FCC X-Rite, Dolby Vision,HDR 1000TB
Resolution	1920 x 1200	1920 x 1200	2880x1800
Diagonal	16"	16"	16"
Aspect Ratio	Ratio 16:10	Ratio 16:10	Ratio 16:10
Backlight	LED	LED	OLED
PPI	142	142	283
Active Area	344.68 x 215.42	344.68 x 215.42	344.448 x 215.28
Refresh Rate	60Hz	60Hz	120Hz
Contrast Ratio	1200:1	1500:1	100000:1
Viewing Angle	89/89/89/89	89/89/89/89	170 degree
Color gamut	45% NTSC	sRGB 100%	100% DCI-P3
Brightness	400nit	500nit	500nit
Contrast	N/A	N/A	N/A
Color Depth	8bit	8bit	8bit+2FRC

Interface	eDP 1.2	eDP 1.4b	eDP 1.5
Panel ID Recognition	EDID in BIOS Table	EDID in BIOS Table	EDID in BIOS Table
Weight	410g max	320g max	193g max
Color Calibrator	AICCP	AICCP	FCC X-Rite
Panel Technology	IPS, Anti-Glare	IPS, Anti-Glare	Anti-Glare
Touch Panel	None	None	None
Disclaimers			

HDD Specifications

2.5" SAS Hard Disk Drive (HDD)	N/A
2.5" SATA Hard Disk Drive (HDD)	N/A
Disclaimers	

HDD Storage Device Specifications

Connector	N/A
Transfer Rate (Gb/sec)	N/A
Disclaimers	

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(msec)	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(Gs @ 2ms)	N/A
Non-Operating(Gs @ 2ms)	N/A
Disclaimers	

SSD Specifications

2.5" SATA Solid State Drive (SSD)	N/A
M.2 (NGFF) PCIe Solid State Drive (SSD)	1x M.2 2280 PCIe Gen4/Gen5
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 / Gen5
Read/Write IOPS Specifications	Performance PCIe Gen5p Read: 1000k(4TB/2TB/1TB/512GB) Write: 1200k(4TB/2TB/1TB/512GB)

	PCIe Gen4value Read: up to 450k (1TB/512GB/256GB) Write: up to 500k(1TB/512GB/256GB)
Bandwidth Performance	PCIe Gen5 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 Gen5p up to 12000MB/s (4TB/2TB/1TB/512GB) PCIe Gen4v 4800MB/s (1TB/512GB)
Min Sequential Write	Performance PCIe Gen5p up to 6000MB/s (4TB/2TB/1TB/512GB) PCIe Gen4v 4000MB/s (1TB/512GB)
Hardware Encryption	Yes
Disclaimers	

Discrete Graphics Adapter

GPU Name	NVIDIA RTX PRO 500 (6GB GDDR7)	NVIDIA RTX PRO 1000 (8GB GDDR7)	NVIDIA RTX PRO 2000 (8GB GDDR7)
CUDA Processing Cores	1792	2560	3328
GPU Memory	6GB	8GB	8GB
Memory Bandwidth	288	384	384
Memory Type	GDDR7	GDDR7	GDDR7
Memory Interface	96-bit	128-bit	128-bit
TGP Max Power Consumption	55W	55W	55W
Display Port	N/A	N/A	N/A
OpenGL	4.6	4.6	4.6
Shader Model	10.4	10.4	10.4
DirectX	12	12	12
PCIe Generation	PCIe Gen4	PCIe Gen4	PCIe Gen4
Floating-Point Performance	9.2	13.6	17.7
VR Ready	No	No	No
Simultaneous Multi-Projection	No	No	No
NVIDIA FXAA/TXAA Antialiasing	Yes	Yes	Yes
NVIDIA nView Display Management Technology	Yes	Yes	Yes

GPU Direct for Video	N/A	N/A	N/A
Vulkan Support	Yes	Yes	Yes
NVIDIA Optimus	Yes	Yes	Yes
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	M.2 PCIE(Wi-Fi)+USB(BT)
Operating Temperature (Adapter Shield)	-10c to +70c
Humidity Non-Operating	60%~85% 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/ax/be, 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*	Bluetooth® 5.4
Authentication	WPA and WPA2, 802.1X (EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA, EAP-AKA
Authentication 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	60wh: 265*59.5*6.98	90wh: 289.3*59.5*8.365
Weight	Max : 225g	Max : 313g

Type (Chemistry and Cell)	Li-ion	Li-ion
Voltage	11.61V	15.60V
Battery Capacity	60Wh	90Wh
Charging Time	QC1 (1hr charge from 0% to 80%)	QC1 (1hr charge from 0% to 80%)
Operating Temperature Range	Charge 0 60°C / Discharge -20 60°C	Charge 0 60°C / Discharge -20 60°C
Warranty	1yr standard, upsell to 3yr	1yr standard, upsell to 3yr
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	Yes, it is NIST feature.
Replicated Setup	Yes, it supported with SRSETUP tool.
Boot Control	Yes, it means Boot order change.
Discrete Mode	No, go hybrid graphic 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 2.9A

EMC & Safety

EMC	<p>Published, Certified Existing Reports</p> <ul style="list-style-type: none"> 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
Safety	<p>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 PCR B 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, 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, Macau, 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, Turkmenistan, Uganda, Ukraine, United Arab Emirates, Uruguay, USA/Territories, Uzbekistan, Venezuela, Vietnam, Zambia, Zimbabwe, Brazil – Inmetro 170 Govt Bids, Guinea-Bissau, Lesotho</p>

Environmentals

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

Hazardous Substances	<p>The latest environmental information about Lenovo products is available at: https://www.lenovo.com/ecodeclaration 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</p>
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Manageability

Industry Standard Specifications	<p>This product meets the following industry standard specifications for manageability functionality: Realtek LAN solution</p>
Remote Manageability Software Solutions	<p>Lenovo ThinkManagement Console Microsoft System Center Configuration Manager LANDesk Management Suite for ThinkVantage Technologies (www.landesk.com/lenovo)</p>
System Software Manager	<p>Lenovo ThinkPad supports software management tools from the Lenovo Vantage System Update suite: System Update Update Retriever</p>
Service, Support, and Warranty	<p>On-site Warranty and Service: Three-years, limited warranty and service offering delivers on-site, next business-day service for parts and labor and includes free telephone support 8am to 5pm. Global coverage ensures that any product purchased in one country and transferred to another, non-restricted country will remain fully covered under the original warranty and service offering.</p>

Environmentals

Energy Star	ENERGY STAR® 9.0
EPEAT	EPEAT® Gold
RoHS Compliant	RoHS Compliant
TCO	TCO 10.0
Sustainability	<p>50% Recycled Aluminium A cover 90% Recycled Magnesium Aluminium C cover 30%PCC Recycled D cover(WLAN) 45%PCC Recycled D cover(WWAN) 85% PCC key caps 90% PCC speaker enclosure 97% PCC battery pack enclosure 90% PCC AC adapter Plastic-free packaging with 90% recycled and/or FSC content</p>
Disclaimers	<p>Product packaging shall contain, on average, a minimum total percentage of 90% by weight of any combination of the following materials:</p>

