

Lenovo P16v Gen 1 AMD

Version: 2.0 | 03/21/2024

Product Display Name

| | |
|------------------|--|
| Information Date | 27-Feb-24 |
| Description | Have it all with the P16s Gen 2 AMD featuring powerful AMD Ryzen™ PRO 7000 Series Processors and integrated AMD Radeon™ 700M Graphics, based on RDNA™ 3 Architecture with AMD PRO graphics Driver delivering the perfect performance engine for entry-level professionals looking for a workstation class system at an also perfect price point. |

CPU

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|-------------------|---|
| Processor Support | Intel 13th Gen Raptor Lake H Series (45W) Core i5, i7, i9 |
| Socket Type | BGA |

Operating Systems

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|-----------|---|
| Preloaded | Windows 11 Pro 64-bit (22H2) Windows 11 Home 64-bit (22H2) Windows 11 Home Chinese Language (PRC only) Ubuntu Linux 64-bit (Version 22.04 LTS, running the 4.15.0 kernel) No Operating System |
| Supported | Ubuntu Linux 22.04 Cert only Red Hat Enterprise Linux (RHEL) 8.6 |

Memory

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|----------------------|-------------------------|
| Number of DIMM Slots | Up to 2 DIMM sockets |
| Channels | Single Channel w/ 1DIMM |

| | |
|-------------------|--|
| | Dual Channel w/ 2DIMMs |
| Type | DDR5 SoDIMM |
| ECC Support | No |
| Speed | Native: Up to 5600MHz Actual: Up to 5200Mhz |
| Max DIMM Size | 48GB |
| Max System Memory | 96GB |
| Min System Memory | 8GB |
| Soldered Memory | None |
| Disclaimers | No ECC memory on P16v i Gen 1 |

Storage

| | |
|--------------------------------------|---|
| Storage Slots | 2 x M.2 2280 |
| SATA | No |
| PCIe | Solid State Drive, OPAL2 PCIe-NVMe M.2 2280S3 – TLC |
| SAS | No |
| Interface | PCIe |
| Security | OPAL |
| Optional Hard Disk Drive Controllers | No |

Video

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|---------------------|--|
| Integrated Graphics | Processor Graphics Intel® Iris Xe Graphics Utilized via "Hybrid Mode" in BIOS |
| Discrete Graphics | NVIDIA RTX A500 or RTX A1000 or RTX 2000 Ada |
| Adapter | None |
| Bus Interface | PEG |

Display

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|-------------|-------------|
| Resolutions | FHD+ / UHD+ |
|-------------|-------------|

Camera

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|-------------------|----------------------------|
| Resolution | FHD 1080p or 5MP+IR Camera |
| Frames per Second | 30 fps |
| Focus | Fixed 50cm |
| Camera Interface | USB 2.0 |
| IR Camera | Yes |

Keyboard

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|-----------------------|--------------------------------|
| Number of Keys | US : 105 / UK : 106 / JP : 110 |
| Numpad | Yes |
| Size | 100% ISO |
| Function Key Features | Yes |
| Backlit | Yes |
| Keyboard size | CS23 KYB with numberpad |
| Key stroke | 1.5mm |
| Key pitch | 19.05mm |
| Keyboard backlight | Optional |
| Keyboard thickness | Standard |

Touchpad / Fingerprint Reader

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|-----------------------------|------------------------------|
| TrackPoint Details | CS22 TL TrackPoint (t=4.8mm) |
| Finger Print Reader Model | 9.45*3.29 FPR, MoC with LED |
| Multi-Touch | Yes |
| Resolution | 1000 ppi |
| TouchPad/Trackpad thickness | 3.4mm |
| TouchPad/Trackpad type | 3+2 BCP |
| Trackpad size | 115mm x 67.6mm |
| Trackpad material/finish | Glass like mylar surface |

I/O – Ports And Connectors

| | |
|-------------------|---|
| USB | 2x USB-A (5Gbps) (1x Powered) |
| Thunderbolt | 2x USB-C® (Thunderbolt™ 4) |
| HDMI | 1x HDMI 2.1 up to 8K/60Hz |
| Audio Combo Jack | 1x Microphone & Headphone Combo Jack (3.5mm) |
| Media Card Reader | Dedicated SD Card Reader (SD Express/UHS-II) (MMC,SD,SDHC SDXC, SDUC) |
| Smart Card Reader | Yes (optional) |
| Power Connector | DC-In |
| Docking Port | Docking Via USB-C® (Thunderbolt™ 4) |
| VirtualLink | None |
| Network adapter | No native RJ-45 port RJ-45 functionality provided via USB-C® to Ethernet Adapter |
| Disclaimers | HDMI 2.1: Up to 8K/60Hz |

Power Connector

| | |
|-------|----------------------------|
| Main | DC-In |
| USB-C | 1x USB-C® (Thunderbolt™ 4) |

Ethernet

| | |
|------------|---|
| Vendor | N/A |
| Count | N/A |
| EEPROM | N/A |
| Speeds | N/A |
| Functions | N/A |
| Connectors | No native RJ-45 port RJ-45 functionality provided via USB-C® to Ethernet Adapter |

WWAN

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|-------|--|
| Model | Fibocom L860-GL 4G LTE CAT16 with eSIM |
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Near Field Communications

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|-------|------------------------|
| Model | Foxconn NXP NPC300 NFC |
|-------|------------------------|

Audio

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|------------------------------------|---|
| Vendor | Realtek |
| Type | Intel High Definition Audio |
| Internal Speaker | 2 channel |
| 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) | 44.1K/48K/96K/192KHz sample rate |
| Signal to Noise Ratio | Mic In: 90dB FSA Headphone Out@32ohm: 97dB FSA |
| Analog Audio | None |
| Dolby Digital | Dolby Audio Premium SW Support |
| Digital Out (S/PDIF) | No |
| Speaker Power Rating | 2W@4ohm/ch |

Power Adapter

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|---------------|-----------------------|
| Type | 135W/170W AC Adapter |
| Dimensions | 200cc (118 x 77 x 22) |
| Input Voltage | 100-240V |

Security

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|----------|-------------------|
| TPM | Version 2.0 |
| Asset ID | Yes |
| vPro | Intel vPro for WS |

Chassis Information

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|-------------------|--|
| Format | Clamshell |
| Color | Thunder black |
| Thermal Solutions | Dual FAN, Intelligent Cooling |
| Dimensions | Length 14.37 inches 365 millimeters Width 9.84 inches 261.9 millimeters Height 0.97 inches 24.66 millimeters |
| Weight | 4.85lbs/2.2kg |

Packaging Parameters

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|---------------|-----------------|
| Height (mm) | 341 |
| Height (inch) | 13.43 |
| Width (mm) | 535 |
| Width (inch) | 21.06 |
| Depth (mm) | 95 |
| Depth (inch) | 3.74 |
| Weight (kgs) | Retail: 3.77kgs |
| Weight (lbs) | Retail: 8.31bs |

Security & Serviceability

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|-------------------|-----|
| Self Healing BIOS | Yes |
|-------------------|-----|

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|------------------------|--|
| Access Panel | Removeable bottom cover |
| Number of Screws | 9 |
| Swappable Components | Bottom cover, memory module, M.2 solid-state drive, speaker assembly, coin-cell battery, TrackPoint pointing cap |
| Storage Slots | 2 slots |
| Memory | 2 SoDIMM slots |
| System Board | FR4 |
| Restore CD/DVD/USB Set | None, Restore Media available via Lenovo Customer Support Center |
| Cable Lock Support | Security-lock slot, Optional Kensington Cable Lock |
| Power-On Password | Yes |
| Hard Disk Password | Yes; User and Master hard disk password |
| Supervisor Password | Yes |
| NIC LEDs (integrated) | None |
| Security Chip | Yes (for TMP 2.0) |
| Access Panel Key Lock | Bottom Cover Tamper Detection |
| Boot Sequence Control | Yes |

Operating Environment

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|---------------------------------|--|
| 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 |

Supported Components

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|----------------|--|
| Processor | Intel® Core™ i5-13500H non-vPro processor (E-cores up to 3.50 GHz P-cores up to 4.70 GHz) Intel® Core™ i7-13700H non-vPro processor (E-cores up to 3.70 GHz P-cores up to 5.0 GHz) Intel® Core™ i7-13800H vPro processor (E-cores up to 4.0 GHz P-cores up to 5.20 GHz) Intel® Core™ i9-13900H vPro processor (E-cores up to 4.10 GHz P-cores up to 5.40 GHz) |
| Memory Support | DDR5 5600MHz SoDIMM (native) DDR5 5200MHz SoDIMM (operational) |
| Chipset (PCH) | None |

| | |
|--------------------|---|
| Size of BIOS Flash | 64MB |
| Super I/O | None |
| Clock | Crystal |
| Audio | Realtek High Definition Audio |
| Ethernet | No native RJ-45 port RJ-45 functionality provided via USB-C® to Ethernet Adapter |

Memory

| | |
|-----------------------------|---|
| System Capacity Options | 8GB 16GB (16GB*1 or 8GB*2) 32GB (32GB*1 or 16GB*2) 48GB 64GB (32GB*2) 96GB (48GB*2) |
| Memory Types | 8GB DDR5 5600MHz SoDIMM 16GB DDR5 5600MHz SoDIMM 32GB DDR5 5600MHz SoDIMM 48GB DDR5 5600MHz SoDIMM |
| Brand of Memory | Samsung SK Hynix Ramaxel |
| Memory clock frequency(MHz) | Native: Up to 5600MHz Actual: Up to 5200MHz |
| Disclaimers | No ECC memory on P16v i Gen 1 |

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) | 256GB OPAL2 PCIe 4x4 Value TLC (M.2 2280-S3) 512GB OPAL2 PCIe 4x4 Value TLC (M.2 2280-S3) 1TB OPAL2 PCIe 4x4 Value TLC (M.2 2280-S3) 512GB OPAL2 PCIe 4x4 Performance TLC (M.2 2280-S3) 1TB OPAL2 PCIe 4x4 Performance TLC (M.2 2280-S3) 2TB OPAL2 PCIe 4x4 Performance TLC (M.2 2280-S3) |
| 2.5" PCIe Solid State Drive (SSD) | None |
| Brand of Drive | Samsung Hynix WD Kioxia |

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|---------------------------------|------------------------------|
| Intel Optane Storage Technology | None |
| RAID | Optional, Selectable in BIOS |
| RAID Level and Requirements | RAID-0/1 |

Removeable Media

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|----------------------------------|---|---|---|---|
| Media Card Reader Specifications | SD Express 7.0 UHS-II | | | |
| CPU | Intel® Core™ i5-13500H Non vPro | Intel® Core™ i7-13700H Non vPro | Intel® Core™ i7-13800H vPro | Intel® Core™ i9-13900H vPro processor |
| Integrated Graphics | Intel® Iris Xe Graphics | Intel® Iris Xe Graphics | Intel® Iris Xe Graphics | Intel® Iris Xe Graphics |
| # of Cores | 12 | 14 | 14 | 14 |
| # of Threads | 16 | 20 | 20 | 20 |
| Processor Base Frequency | 2.6GHz on P-cores and 1.9GHz on E-cores | 2.4GHz on P-cores and 1.8GHz on E-cores | 2.5GHz on P-cores and 1.8GHz on E-cores | 2.6GHz on P-cores and 1.9GHz on E-cores |
| Max Turbo Frequency | 4.7GHz on P-cores and 3.5GHz on E-cores | 5.0GHz on P-cores and 3.7GHz on E-cores | 5.2GHz on P-cores and 4.0GHz on E-cores | 5.4GHz on P-cores and 4.1GHz on E-cores |
| Cache | 18 MB | 24 MB | 24 MB | 24 MB |
| TDP | 45W | 45W | 45W | 45 W |

Display Specifications

| | | | | |
|--------------|---|---|---|------------------------------------|
| Model | FHD+ | FHD+ on-cell touch | FHD+ | UHD+ |
| Resolution | 1920 x 1200 | 1920 x 1200 | 1920 x 1200 | 3840 x 2400 |
| Diagonal | 16" | 16" | 16" | 16" |
| Aspect Ratio | Ratio 16:10 | Ratio 16:10 | Ratio 16:10 | Ratio 16:10 |
| Backlight | LED | LED | LED | LED |
| PPI | 141.5 (Pixel Pitch:0.17952mm x 0.17952mm) | 141.5 (Pixel Pitch:0.17952mm x 0.17952mm) | 141.5 (Pixel Pitch:0.17952mm x 0.17952mm) | 283 (Pixel Pitch: 0.09mm x 0.09mm) |
| Active Area | 344.68 x 215.42 | 344.68 x 215.42 | 344.68 x 215.42 | 344.678 x 215.424 |
| Refresh Rate | 48 / 60 Hz | 60Hz | 48 / 60 Hz | 60Hz |

| | | | | |
|----------------------|--------------------|--------------------|--------------------|----------------------------------|
| Contrast Ratio | 800:1 (TYP) | 800:1 (TYP) | 1200:1 (TYP) | 1400:1 (TYP) |
| Viewing Angle (*1) | 85/85/85/85 degree | 85/85/85/85 degree | 85/85/85/85 degree | 85/85/85/85 degree |
| Color gamut | 45% NTSC | 45% NTSC | 100% sRGB | 100% DCI-P3 |
| Brightness | 300nit | 300nit | 300nit | 800nit, HDR 400 |
| Color Depth | 16.7M | 16.7M | 16.7M | 1064M |
| Interface | eDP 1.2 | eDP 1.2 | eDP 1.4 | eDP 1.4 |
| Panel ID Recognition | EDID in BIOS Table | EDID in BIOS Table | EDID in BIOS Table | EDID in BIOS Table |
| Weight | max 410g | Max 410g | max 325g | max 330g |
| Color Calibrator | None | None | None | X-Rite Factory Color Calibration |
| Panel Technology | IPS, Anti-Glare | IPS, Anti-Glare | IPS, Anti-Glare | IPS, Anti-Glare |
| Touch Panel | None | Yes | None | None |

SSD Specifications

| | |
|---|------------------|
| M.2 (NGFF) PCIe Solid State Drive (SSD) | 2x M.2 2280 PCIe |
|---|------------------|

Solid State Storage Devices

| | | |
|---|---|---|
| Supported Types | M.2 | M.2 |
| Dimensions inches/centimeters (W x D x H) | 22.0 (+-0.15) x 80.0 (+-0.15) x 2.3 (max) | 22.0 (+-0.15) x 80.0 (+-0.15) x 2.3 (max) |
| Size | M.2 2280 S3 | M.2 2280-S3 |
| Interface Type | PCIe NVMe | PCIe NVMe |
| Read/Write IOPS Specifications | Read: 250K (1TB, 512GB), 200K (256GB) Write: 240K (1TB, 512GB), 190K (256GB) | Read: 550K (1TB/2TB), 350K (512GB) Write: 400K (1TB/2TB), 370K (512GB) IOPS, 4K Random, 32 q depth, 8 threads |
| Bandwidth Performance | PCIe Gen4x4 Value (8Gb/S) | PCIe Gen4x4 Performance (16Gb/S) |
| Power Consumption (Max) | 3.0A (duration for 10 us) | 8.0W |
| Active(AVG) | 5W | 8.0W (Sequential read) |
| Idle | 5mW (L1.2) | 5mW (Low power state) |
| Min MTBF | 2,000,000 (h) | 2,000,000 (h) |

| | | |
|----------------------|---|--|
| Min Sequential Read | 3000MB/s (2TB, 1TB, 512GB), 2900MB/s (256GB) | 6400MB/s (1TB/2TB), 6000MB/s (512GB), 5000MB/s (256GB) |
| Min Sequential Write | 1600MB/s (2TB, 1TB/512GB), 900MB/s (256GB) | 5000MB/s (2TB), 3800MB/s (1TB), 3200MB/s (512GB), 1600MB/s (256GB) |
| Hardware Encryption | Yes | Yes for OPAL, No for Pyrite |

Discrete Graphics Adapter

| | | | |
|--|-----------------|------------------|---------------------|
| GPU Name | NVIDIA RTX A500 | NVIDIA RTX A1000 | NVIDIA RTX 2000 Ada |
| CUDA Processing Cores | 2048 | 2560 | 3072 |
| GPU Memory | 4GB | 6GB | 8GB |
| Memory Bandwidth | 112.02 GB/s | 132.02 GB/s | 256 Gb/s |
| Memory Type | GDDR6 | GDDR6 | GDDR6 |
| Memory Interface | 64-bit | 96-bit | 128-bit |
| Display Port | 1.4 | 1.4 | 1.4 |
| OpenGL | 4.6 | 4.6 | 4.6 |
| Shader Model | 7 | 7 | 7 |
| DirectX | 12 | 12 | 12 Ultimate |
| PCIe Generation | 4 | 4 | 4 |
| Floating-Point Performance | 3 | 3.7 | 9.3 |
| VR Ready | Yes | Yes | Yes |
| Simultaneous Multi-Projection | N/A | N/A | 74.7 |
| NVIDIA FXAA/TXAA Antialiasing | Yes | Yes | Yes |
| NVIDIA nView Display Management Technology | Yes | Yes | Yes |
| GPU Direct for Video | Yes | Yes | Yes |
| Vulkan Support | Yes | Yes | Yes |
| NVIDIA Optimus | Yes | Yes | Yes |

WLAN

| | |
|---------------------------------|--|
| Model | Garfield Peak 2 Intel Wi-Fi 6E AX211 (Gig+) + BT5.3 (HW Ready) |
| Connector: Main, Aux/GNSS, GNSS | ANT1:AUX WiFi + BT; ANT2: Main WiFi |
| Antenna Diversity | Supported |

| | |
|--|--|
| MIMO | Supported |
| GNSS Bian | N/A |
| Radio ON/OFF Control | Supported |
| Connector interface | CNVi |
| Operating Temperature (Adapter Shield) | 0c to +80c |
| Humidity Non-Operating | 50%~90% Rh non condensing (at temperatures of 25c to 35c) |
| Operating Systems | Windows 11, 64-bit*,Microsoft Windows 10*, Linux*(limited feature support), Chrome* |
| Wi-Fi Alliance | Wi-Fi CERTIFIED* a/b/g/n/ac/ax with wave 2 features, WMM*, WMM-PS*, WPA*, WPA2*, WPS2*, Protected Management Frames, Wi-Fi Miracast* as Source, and Wi-Fi Direct (For Microsoft Windows* only) |
| IEEE WLAN Standard | IEEE 802.11a/b/g/n/ac/ax, 802.11d,802.11e, 802.11h, 802.11i, 802.11w, 802.11r, 802.11k, 802.11v, pending OS support; Fine Timing Measurement based on 802.11-2016 |
| Roaming | Support seamless roaming between access points |
| Bluetooth* | Bluetooth 5.3 (HW Ready) |
| 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 | FIPS, FISMA |
| Product Safety | UL,C-UL,CB (IEC 60950-1) |
| Disclaimers | 1) 6GHz channel of Wi-Fi 6E is only available with Windows 11 2) Bluetooth may be limited by OS |

Battery

| | |
|-----------------------------|---|
| Dimension | L: 312mm*W: 58.8mm*T 9.4mm |
| Weight | MAX 349.75g |
| Type (Chemistry and Cell) | Li-Polymer (4S1P), 4-cell |
| Voltage | 15.52 V |
| Battery Capacity | 90Wh |
| Charging Time | On Charge Time (0 - 100%) * 117 min Off Charge Time (0 - 80%) ** 56 min Off Charge Time (0 - 100%) ** 115 min |
| Operating Temperature Range | between 10°C (50°F) and 35°C (95°F) |
| Warranty | 1 Year / 3 Year Available |
| Coin Cell Battery (Model) | CR2032 |

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 |
| Replicated Setup | Yes, it supported with SRSETUP tool. |
| Boot Control | Yes, it means Boot order change. |
| Discrete Mode | No |
| Asset Tag | Yes |
| Remote Wakeup/Remote Shutdown | Only support WOL when system is connected with Dock. |
| 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 |
| Intel(R) AMT (includes ASF 2.0) | Yes. If you select vPro model |
| Intel(R) TXT | Yes. If you select vPro model |

EMC & Safety

| | |
|--------|--|
| EMC | Published, Certified Existing Reports EMC – Australia EMC – Belarus EMC – Canada EMC – China EMC – EU/EFTA EMC – Japan EMC – Kazakhstan EMC – New Zealand EMC – Russia 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 | To access the latest User Guide and Safety and Warranty Guide, go to: https://support.lenovo.com |

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| | <p>Low Halogen Declaration of Conformance TNOT-2017-0040 Section 9 – Low Halogen Scorecard 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, 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> |
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Environmentals

| | |
|----------------------|--|
| Energy Star | ENERGY STAR® Version 8.0 For more information about ENERGY STAR, go to: https://www.energystar.gov |
| EPEAT | EPEAT Silver Certification Available on select models |
| 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 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 |

Manageability

| | |
|---|---|
| Industry Standard Specifications | This product meets the following industry standard specifications for manageability functionality: |
| Remote Manageability Software Solutions | Lenovo ThinkManagement Console Microsoft System Center Configuration Manager LANDesk Management Suite for Lenovo Vantage Technologies (www.landesk.com/lenovo) |
| System Software Manager | Lenovo ThinkStation supports software management tools from the ThinkVantage 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-site, next business-day service for parts and labor and includes free telephone support 8am â€“ 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. |
| Materials Used | 90% Recycled Magnesium C Cover 85% PCC Plastic Key Caps on Keyboard 90% PCC Plastic Speaker Enclosure 90% PCC Plastic Battery Pack Enclosure 90% PCC Plastic SIM Tray 30% PCC Plastic 135W Slim AC Adapter 30% PCC Plastic 170W Slim AC Adapter Low Temperature Solder (SSD, fingerprint reader module, ClickPad) Plastic free packaging with 90% recycled and/or FSC certified content (standard) |
| TCO Certification | 9.0 |
| Disclaimers | 1. EPEAT registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country. 2. Product packaging shall contain, on average, a minimum total percentage of 90% by weight of any combination of the following materials: Recycled content, biobased plastic, non-wood biobased fiber material, and/or sustainably forested material |