

# Lenovo P16v i Gen 3

**Version:** 2.0 | 10/29/2025

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|                      |                     |
|----------------------|---------------------|
| Product Name         | P16v Gen 3          |
| Product Display Name | ThinkPad P16v Gen 3 |
| Information Date     | Sept 5 2025         |

## SECTION I: SYSTEM OVERVIEW

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|             |  |
|-------------|--|
| Description | The Lenovo ThinkPad P16v is a powerful mobile workstation designed for a broad range of power users across various industries who need a reliable and efficient device at an affordable price point. |
|-------------|--|

### CPU

|                   |   |
|-------------------|---|
| Processor Support | Intel Core Ultra Series 2 – H-Series (35W) Core 7 and 9 |
| Socket Type       | BGA   |

# Operating Systems

|           |   |
|-----------|---|
| Preloaded | Windows 11 Pro 64-bit (24H2)<br>Windows 11 Home 64-bit<br>Windows 11 Home Single Language 64-bit<br>Windows 11 Home Chinese Language Edition 64-bit<br>Ubuntu Linux 64-bit (Version 24.04)<br>No Operating System |
| Supported | Ubuntu Linux 24.04 Cert only<br>Red Hat Enterprise Linux (RHEL) 9.4 (depending on NVIDIA open source driver status)   |

# Memory

|                      |   |
|----------------------|---|
| Number of DIMM Slots | Up to 2 Slots                                       |
| Channels             | Single Channel w/ 1 DIMM<br>Dual Channel w/ 2 DIMMs |
| Type                 | DDR5 SoDIMM or DDR5 CSoDIMM                         |
| ECC Support          | No  |
| Speed                | Up to 5600MT/s SoDIMMs or 6400MT/s CSoDIMMs         |
| Max DIMM Size        | 48GB  |
| Max System Memory    | 96GB  |
| Min System Memory    | 16GB  |
| Soldered Memory      | None  |
| Disclaimers          | No ECC memory on P16v Gen 3                         |

# Storage

|               |   |
|---------------|---|
| Storage Slots | 2x M.2 2280                                     |
| SATA          | No  |
| PCIe          | Solid State Drive, 2x OPAL2 PCIe NVMe M.2 – TLC |
| SAS           | No  |

|                                      |   |
|--------------------------------------|---|
| Interface                            | PCIe Gen 5 Performance or Gen 4 Value                     |
| Security                             | OPAL2 for NVMe SSD  |
| Optional Hard Disk Drive Controllers | No  |
| Disclaimers                          | Dual slot storage is available with all CPU & GPU options |

## Video

|                     |  |
|---------------------|--|
| Integrated Graphics | Processor Graphics Intel® Arc Pro Graphics<br>Utilized via "Hybrid Mode" in BIOS |
| Discrete Graphics   | NV RTX PRO 500 Blackwell, 1000 Blackwell, 2000 Blackwell                         |
| Adapter             | None   |
| Bus Interface       | PCI Express 5.0  |

## Display

|             |                              |
|-------------|------------------------------|
| Resolutions | WUXGA (FHD+) / WQUXGA (UHD+) |
|-------------|------------------------------|

## Camera

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

## Keyboard

|                |                                |
|----------------|--------------------------------|
| Number of Keys | US : 105 / UK : 106 / JP : 110 |
|----------------|--------------------------------|

|                       |                         |
|-----------------------|-------------------------|
| Numpad                | Yes                     |
| Size                  | 100% ISO                |
| Function Key Features | Yes                     |
| Backlit               | Yes                     |
| Keyboard size         | CS25 KYB with numberpad |
| Key stroke            | 1.5mm                   |
| Key pitch             | 19.05mm                 |
| Keyboard backlight    | Yes                     |
| Keyboard thickness    | 4.0mm                   |

## Touchpad / Fingerprint Reader

|                             |                              |
|-----------------------------|------------------------------|
| TrackPoint Details          | CS22 TL TrackPoint (t=4.8mm) |
| Finger Print Reader Model   | 11*3.24 FPR, MoC with LED    |
| Multi-Touch                 | Yes                          |
| Resolution                  | n/a                          |
| TouchPad/Trackpad thickness | 3.4mm                        |
| TouchPad/Trackpad type      | TrackPad                     |
| Trackpad size               | 115mm x 67.6mm               |
| Trackpad material/finish    | Glass like mylar surface     |

## I/O – Ports and Connectors

|                  |  |
|------------------|--|
| USB              | 2x USB-A (10Gbps)                            |
| Thunderbolt      | 2x USB-C® (Thunderbolt™ 4)                   |
| HDMI             | 1x HDMI 2.1                                  |
| Audio Combo Jack | 1x Microphone & Headphone Combo Jack (3.5mm) |

|                   |  |
|-------------------|--|
| Media Card Reader | Dedicated SD Express 7.0 Card Reader (Backwards compatible with UHS-I & UHS-II) (MMC,SD,SDHC SDXC) |
| Smart Card Reader | Yes (optional)   |
| Power Connector   | DC-In via USB-C® (Thunderbolt™ 4) PD 3.1   |
| Docking Port      | Docking Via USB-C® (Thunderbolt™ 4) PD 3.1   |
| VirtualLink       | None   |
| Network adapter   | Full size 1.0Gbps RJ-45 port   |
| Disclaimers       | HDMI 2.1: Up to 8K/60Hz  |

## Power Connector

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|             |   |
|-------------|---|
| Main        | DC-In via USB-C® (Thunderbolt™ 4) PD 3.1                |
| USB-C       | see above   |
| Disclaimers | normal charge via 100W and fast charge via 140W charger |

## Ethernet

|            |                              |
|------------|------------------------------|
| Vendor     | Intel                        |
| Count      | 1                            |
| EEPROM     | No                           |
| Speeds     | 1.0Gbps                      |
| Functions  | Ethernet Connection I219     |
| Connectors | Full size 1.0Gbps RJ-45 port |

## WWAN

|             |  |
|-------------|--|
| Model       | 5G: Rolling Wireless RW350R-GL 5G sub-6GHz CAT19/CAT18 |
| Disclaimers | WWAN support country dependent                         |

## Near Field Communications

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

## Audio

|                                    |   |
|------------------------------------|---|
| 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<br>Headphone Out@32ohm: 97dB FSA |
| Analog Audio                       | None  |
| Dolby Digital                      | Dolby Atmos                                       |
| Digital Out (S/PDIF)               | No  |
| Speaker Power Rating               | 2W@4ohm/ch  |

## Power adapter

|               |                                      |
|---------------|--------------------------------------|
| Type          | 140W Type-C PD 3.1 EPR<br>AC Adapter |
| Dimensions    | (120 x 62.5 x 22mm)                  |
| Weight        | Max 340g                             |
| Input Voltage | 100-240V                             |

## Security

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

## Chassis Information

|                   |  |
|-------------------|--|
| Format            | 16" Clamshell  |
| Color & Material  | Black<br>Aluminum and Plastic  |
| Thermal Solutions | Internal Dual Fan, Intelligent Cooling   |
| Dimensions        | Length<br>14.23 inches<br>361.50 millimeters<br>Width<br>9.79 inches<br>248.60 millimeters<br>Height<br>0.50 (front) / 0.77 (rear), 1.04 (max) inches<br>12.8 (front) / 19.55 (rear), 26.3 (max) millimeters |
| Weight            | 4.60lbs/2.1kg  |

## Packaging Parameters

|               |                     |
|---------------|---------------------|
| Height (mm)   | 25.05, MKT : 22.3   |
| Height (inch) | 0.986, MKT : 0.878  |
| Width (mm)    | 365                 |
| Width (inch)  | 14.37               |
| Depth (mm)    | 261.92              |
| Depth (inch)  | 10.31               |
| Weight (kgs)  | start from 2.32 kg  |
| Weight (lbs)  | start from 4.92 lbs |

## Security & Serviceability

|                             |  |
|-----------------------------|--|
| Hardware Maintenance Manual | P16v Gen 3 HMM   |
| Drivers & Software          | P16v Gen 3 Drivers & Software  |
| Self Healing BIOS           | Yes  |
| Access Panel                | Removeable bottom cover  |
| Number of Screws            | 6+2  |
| Swappable Components        | Bottom cover, battery, M.2 Solid State Drive, SoDIMM & CSoDIMM memory module, WWAN module, SIM tray, keyboard, RTC battery |
| Storage Slots               | 2 slots  |
| Memory                      | 2 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) | Yes                           |
| Security Chip         | Yes (for TMP 2.0)             |
| Access Panel Key Lock | Bottom Cover Tamper Detection |
| Boot Sequence Control | Yes                           |

## Operating Environment

|                                 |  |
|---------------------------------|--|
| Operating – Air Temperature     | Meet MIL810G<br>At altitude 15,000 feet for 1 hour<br>43°C for 2hrs<br>-21°C for 2hrs  |
| Non Operating – Air Temperature | Meet MIL810G<br>At altitude 15,000 feet for 1 hour<br>63°C for 4hrs<br>-25°C for 24hrs |
| Humidity                        | Meet MIL810G<br>95% RH, 30~60C, 24hrs*10cycles   |
| Corrosive Gas                   | G1   |
| Particulates                    | P1   |

## SECTION II: SUPPORTED COMPONENTS

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### Supported Components

|                |   |
|----------------|---|
| Processor      | Intel® Core™ Ultra 7 255H processor (E-cores up to 4.4 GHz P-cores up to 5.1 GHz)<br>Intel® Core™ Ultra 7 265H processor (E-cores up to 4.5 GHz P-cores up to 5.3 GHz)<br>Intel® Core™ Ultra 9 285H processor (E-cores up to 4.5 GHz P-cores up to 5.4 GHz) |
| Memory Support | DDR5 5600MT/s SoDIMM or DDR5 6400MT/s CSoDIMM   |
| Chipset (PCH)  | N/A   |

|                    |                              |
|--------------------|------------------------------|
| Size of BIOS Flash | 64MB                         |
| Super I/O          | None                         |
| Clock              | Crystal                      |
| Audio              | Dolby Atmos                  |
| Ethernet           | Full size 1.0Gbps RJ-45 port |

## Memory

|                             |  |
|-----------------------------|--|
| System Capacity Options     | 16GB (16GB*1)<br>32GB (32GB*1 or 16GB*2)<br>48GB (42GB*1)<br>64GB (32GB*2)<br>96GB (48GB*2)                        |
| Memory Types                | 16GB DDR5 5600MT/s SoDIMM<br>32GB DDR5 5600MT/s SoDIMM<br>32GB DDR5 6400MT/s CSoDIMM<br>48GB DDR5 6400MT/s CSoDIMM |
| Brand of Memory             | Samsung<br>Micron<br>Hynix<br>Ramaxel  |
| Memory clock frequency(MHz) | 5600MT/s (SoDIMM) or 6400MT/s (CSoDIMM)  |
| Disclaimers                 | No ECC memory on P16v Gen 3  |

## 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 OPAL2 PCIe 4×4 Value TLC (M.2 2280-S3)<br>1TB OPAL2 PCIe 4×4 Value TLC (M.2 2280-S3)<br>512GB OPAL2 PCIe 5×4 Performance TLC (M.2 2280-S3)<br>1TB OPAL2 PCIe 5×4 Performance TLC (M.2 2280-S3)<br>2TB OPAL2 PCIe 5×4 Performance TLC (M.2 2280-S3) |

|                                   |  |
|-----------------------------------|--|
| 2.5" PCIe Solid State Drive (SSD) | None   |
| Brand of Drive                    | Samsung<br>Union Memory<br>WD<br>Micron<br>Hynix<br>Kioxia |
| Intel Optane Storage Technology   | None   |
| RAID                              | Optional, Selectable in BIOS                               |
| RAID Level and Requirements       | RAID-0/1   |

## Removeable Media

|                                  |  |
|----------------------------------|--|
| Media Card Reader Specifications | SD Express 7.0                             |
| Disclaimers                      | Backwards compatible with UHS-I and UHS-II |

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|                          |   |   |   |
|--------------------------|---|---|---|
| CPU                      | Intel® Core™ Ultra 7 255H processor (E-cores up to 4.4 GHz / P-cores up to 5.1 GHz) | Intel® Core™ Ultra 7 265H processor (E-cores up to 4.5 GHz / P-cores up to 5.3 GHz) | Intel® Core™ Ultra 9 285H processor (E-cores up to 4.5 GHz / P-cores up to 5.4 GHz) |
| Integrated Graphics      | Intel® Arc Pro Graphics   | Intel® Arc Pro Graphics   | Intel® Arc Pro Graphics   |
| # of Cores               | 6 P-cores and 8 E-cores   | 6 P-cores and 8 E-cores   | 6 P-cores and 8 E-cores   |
| # of Threads             | 16  | 16  | 16  |
| Processor Base Frequency | E-cores up to 1.5 GHz / P-cores up to 2.0 GHz                                       | E-cores up to 1.7 GHz / P-cores up to 2.2 GHz                                       | E-cores up to 2.7 GHz / P-cores up to 2.9 GHz                                       |
| Max Turbo Frequency      | E-cores up to 4.4 GHz / P-cores up to 5.1 GHz                                       | E-cores up to 4.5 GHz / P-cores up to 5.3 GHz                                       | E-cores up to 4.5 GHz / P-cores up to 5.4 GHz                                       |
| Cache                    | 24 MB   | 24 MB   | 24 MB   |
| TDP                      | 45 W  | 45 W  | 45 W  |

## Display Specifications

| Model                | WUXGA IPS Non-Touch                        | WUXGA IPS Non-Touch, Low Power             | WQUXGA OLED Touch                  |
|----------------------|--|--|------------------------------------|
| Resolution           | FHD+ (1920 x 1200)                         | FHD+ (1920 x 1200)                         | UHD+ (3840 x 2400)                 |
| Diagonal             | 16"  | 16"  | 16"                                |
| Aspect Ratio         | Ratio 16:10                                | Ratio 16:10                                | Ratio 16:10                        |
| Backlight            | LED  | LED  | N/A                                |
| PPI                  | 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          | FHD+: 344.68mm x 215.42mm                  | FHD+: 344.68mm x 215.42mm                  | UHD+: 344.678mm x 215.424mm        |
| Refresh Rate         | Max 60Hz                                   | Max 60Hz                                   | Max 60Hz                           |
| Contrast Ratio       | FHD+: 1200:1                               | FHD+: 1200:1                               | UHD+: 1500:1                       |
| Viewing Angle (*1)   | FHD+: 89/89/89/89 degree                   | FHD+: 89/89/89/89 degree                   | UHD+: 85/85/85/85 degree           |
| Color gamut          | 45% NTSC                                   | 100% sRGB                                  | 100% DCI-P3                        |
| Brightness           | 400nit                                     | 500nit                                     | 400nit                             |
| HDR                  | N/A  | N/A  | Dolby Vision                       |
| Color Depth          | FHD+: 16.7M (8-bit)                        | FHD+: 16.7M (8-bit)                        | UHD+: 1064M (8-bit + 2 FRC)        |
| Interface            | FHD+: eDP 1.4b                             | FHD+: eDP 1.4b                             | UHD+: eDP 1.4b                     |
| Panel ID Recognition | EDID in BIOS Table                         | EDID in BIOS Table                         | EDID in BIOS Table                 |
| Weight               | max 410g                                   | max 320g                                   | max 221g                           |
| Color Calibrator     | AICCP Factory Color Calibration            | AICCP Factory Color Calibration            | X-Rite Factory Color Calibration   |
| Panel Technology     | IPS, Anti-Glare                            | IPS, Anti-Glare                            | OLED, AGARAS                       |
| Touch Panel          | None                                       | None                                       | Multi-Finger Touch Panel           |

## SSD Specifications

|   |                     |
|---|---------------------|
| 2.5" SATA Solid State Drive (SSD)       | N/A                 |
| M.2 (NGFF) PCIe Solid State Drive (SSD) | 2x M.2 2280-S3 PCIe |

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

## 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: 600K (1TB), 450K (512GB)<br>Write: 500K (1TB,512GB)<br>IOPS, 4K Random, 8 threads, queue depth of 32, data set size of 1GB. | Read: 1500K (2TB), 1200K (1TB), 1000K (512GB)<br>Write: 1500K (2TB/1TB), 1200K (512GB)<br>IOPS, 4K Random, 8 threads, queue depth of 32, data set size of 1GB. |
| Bandwidth Performance                     | PCIe Gen4x4 Value – 512GB-1TB   | PCIe Gen5x4 Performance – 512GB-2TB  |
| Power Consumption (Max)                   | 3.0A (duration for 10 us)   | 4.5A (duration for 10 us)  |
| Active(AVG)                               | 5W  | 10W  |
| Idle                                      | 5mW (L1.2)  | 5mW (L1.2)   |
| Min MTBF                                  | 2,000,000 (h)   | 2,000,000 (h)  |
| Min Sequential Read                       | 5000MB/s (1TB), 4800MB/s (512GB),   | 14000MB/s (2TB/1TB), 11000MB/s (512GB)   |
| Min Sequential Write                      | 4000MB/s (1TB/512GB)  | 12000MB/s (2TB), 11000MB/s (1TB), 5500MB/s (512GB)   |
| Hardware Encryption                       | OPAL  | OPAL   |

## Discrete Graphics Adapter

|                              |   |  |  |
|------------------------------|---|--|--|
| Laptop GPUs                  | NVIDIA RTX PRO 500 Blackwell Laptop GPU | NVIDIA RTX PRO 1000 Blackwell Laptop GPU | NVIDIA RTX PRO 2000 Blackwell Laptop GPU |
| NVIDIA CUDA Processing Cores | 1792                                    | 2560                                     | 3328                                     |
| NVIDIA RT Cores              | 4th Gen                                 | 4th Gen                                  | 4th Gen                                  |
| Tensor Cores                 | 5th Gen                                 | 5th Gen                                  | 5th Gen                                  |

|   |             |             |             |
|---|-------------|-------------|-------------|
| GPU Memory                                  | 6GB         | 8GB         | 8GB         |
| Peak Memory Bandwidth                       | 288 GB/s    | 384 GB/s    | 384 GB/s    |
| Memory Type                                 | GDDR7       | GDDR7       | GDDR7       |
| Memory Interface                            | 96-bit      | 128-bit     | 128-bit     |
| DisplayPort                                 | 2.1b        | 2.1b        | 2.1b        |
| Open GL                                     | 4.6         | 4.6         | 4.6         |
| Shader Model                                | 7           | 7           | 7           |
| DirectX                                     | 12 Ultimate | 12 Ultimate | 12 Ultimate |
| PCIe Generation                             | 5           | 5           | 5           |
| Single Precision Floating-Point Performance | 9.2         | 13.6        | 17.7        |
| Tensor Performance                          | 147.4       | 193         | 231.6       |
| NVIDIA FXAA/TXAA Anti-Aliasing              | Yes         | Yes         | Yes         |
| NVIDIA RTX Desktop Manager                  | No          | No          | No          |
| Vulkan Support                              | Yes         | Yes         | Yes         |
| NVIDIA Optimus                              | Yes         | Yes         | Yes         |
| NVIDIA Max-Q Technology                     | Yes         | Yes         | Yes         |
| NVENC/NVDEC                                 | Yes         | Yes         | Yes         |

## WLAN

|                                 |  |
|---------------------------------|--|
| Model                           | Intel Wi-Fi 7 BE201 (Fillmore Peak 2) + BT5.4 (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             | M.2: CNVio2  |

|  |  |
|--|--|
| 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                         | n/a  |
| IEEE WLAN Standard                     | IEEE 802.11a, b, d, e, g, h, i, k, n, r, u, v, w, ac, ax, be   |
| Roaming                                | Support seamless roaming between access points   |
| Bluetooth*                             | Bluetooth 5.4  |
| Authentication Protocols               | 802.1X<br>EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0 -MSCHAPv2<br>, EAP-SIM, EAP-AKA, EAP-AKA                |
| Encryption                             | 128-bit AES-CCMP, 256-bit AES-GCMP   |
| Regulatory                             | For a list of country approvals, please contact your local Intel representatives.                    |
| US Government                          | FIPS 140-2   |
| Product Safety                         | IEC62368-1 and IEC60950-1  |
| Disclaimers                            | 1) 6GHz channel of Wi-Fi 6E/7 is only available with Windows 11<br>2) Bluetooth may be limited by OS |

## Battery

|                             |  |
|-----------------------------|--|
| Dimension                   | L: 306.9mm*W: 59mm*T 8.13mm  |
| Weight                      | MAX 318g   |
| Type (Chemistry and Cell)   | Li-Polymer (4S1P), 4-cell  |
| Voltage                     | 15.6 V   |
| Battery Capacity            | 90Wh   |
| Charging Time               | On Charge Time (0- 100%) * 105 min<br>Off Charge Time (0 – 80%) ** 56 min<br>Off Charge Time (0 – 100%) ** 100 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

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### BIOS Specifications

|  |  |
|--|--|
| WMI Support                                    | Yes, if it is BIOS Setup change by WMI.                |
| ROM-Based Setup Utility (F1)                   | Yes  |
| Bootblock Recovery                             | Support NIST   |
| Replicated Setup                               | Yes, it supported with SRSETUP tool.                   |
| Boot Control                                   | Yes, it means Boot order change.                       |
| Discrete Mode                                  | No   |
| 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                  | Only support WOL when system is connected with Dock.   |
| 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 |
| Intel(R) AMT (includes ASF 2.0)                | Yes. If you select vPro model                          |
| Intel(R) TXT                                   | Yes. If you select vPro model                          |
| Memory Modes                                   | N/A  |
| UEFI   | UEFI 2.9A  |



# EMC & Safety

|        |  |
|--------|--|
| EMC    | <p>Published, Certified Existing Reports</p> <p>EMC – Australia</p> <p>EMC – Canada</p> <p>EMC – China</p> <p>EMC – EU/EFTA</p> <p>EMC – Japan</p> <p>EMC – Kazakhstan</p> <p>EMC – New Zealand</p> <p>EMC – South Korea</p> <p>EMC – Taiwan</p> <p>EMC – USA/Territories</p> <p>Not Applicable / Not Required</p> <p>EMC – Israel</p> <p>EMC – Moldova</p> <p>EMC – Serbia</p> <p>EMC – Turkey</p> <p>EMC – Uzbekistan</p> <p>EMC – Vietnam</p>   |
| Safety | <p>To access the latest User Guide and Safety and Warranty Guide, go to:<br/> <a href="https://support.lenovo.com">https://support.lenovo.com</a></p> <p>Low Halogen Declaration of Conformance<br/>         TNOT-2017-0040</p> <p>Section 9 – Low Halogen Scorecard</p> <p>Homologation PCRB Compliant</p> <p>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          | ENERGY STAR® Version 9.0<br>For more information about ENERGY STAR, go to:<br><a href="https://www.energystar.gov">https://www.energystar.gov</a>  |
| EPEAT                | EPEAT Gold Certification Available on select models  |
| IT ECO declaration   | The latest environmental information about Lenovo products is available at: <a href="https://www.lenovo.com/us/en/compliance/eco-declaration/">https://www.lenovo.com/us/en/compliance/eco-declaration/</a>  |
| Hazardous Substances | The latest environmental information about Lenovo products is available at:<br><a href="https://www.lenovo.com/ecodeclaration">https://www.lenovo.com/ecodeclaration</a><br>European Union RoHS<br>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").<br>For more information about Lenovo worldwide compliance on RoHS, go to:<br><a href="https://www.lenovo.com/content/dam/lenovo/site-design/esg-document-library/global/corp-policies/materials/Lenovo_Commitment_to_RoHS.pdf">https://www.lenovo.com/content/dam/lenovo/site-design/esg-document-library/global/corp-policies/materials/Lenovo_Commitment_to_RoHS.pdf</a> |

## Manageability

|   |   |
|---|---|
| Industry Standard Specifications        | This product meets the following industry standard specifications for manageability functionality:  |
| Remote Manageability Software Solutions | Lenovo ThinkManagement Console<br>Microsoft System Center Configuration Manager<br>LANDesk Management Suite for Lenovo Vantage Technologies ( <a href="http://www.landesk.com/lenovo">www.landesk.com/lenovo</a> )  |
| System Software Manager                 | Lenovo ThinkStation supports software management tools from the ThinkVantage System Update suite:<br>System Update<br>Update Retriever  |
| Service, Support, and Warranty          | On-site Warranty and Service: Three-years, limited warranty and service offering delivers on-site 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    | 75% Recycled Aluminum A Cover<br>30% PCC Plastic C Cover<br>30% PCC Plastic D Cover<br>90% PCC Plastic 140W Slim AC Adapter<br>Low Temperature Solder (SSD, fingerprint reader module, motherboard and FHD+)<br>Plastic free packaging with 90% recycled and/or FSC certified content (standard/bulk)   |
| TCO Certification | TCO 10.0  |
| MIL-STD           | Meets MIL-STD-810H METHOD 516.8 procedure IV (transit drop with and without packaging)  |
| Disclaimers       | 1. EPEAT registered where applicable. EPEAT registration varies by country. See <a href="http://www.epeat.net">www.epeat.net</a> for registration status by country.<br>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 |