

Lenovo P14s Gen 3 AMD

Version: 4.0 | 03/21/2024

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|----------------------|------------|
| Product Display Name | P14s Gen 3 |
| Information Date | 27-Feb-24 |

SECTION I: Platform Overview

| | |
|-------------|--|
| Description | ThinkPad P14s POWER THAT MOVES The ThinkPad® P14s, Lenovo's most mobile workstation, features the latest AMD Ryzen™ processors with integrated AMD Radeon™ graphics, in a conveniently portable 14-inch chassis. Perfect for highly-mobile power users, the P14s strikes the balance between power and mobility—allowing students, architects, and engineers to be creative anytime, anywhere. |
|-------------|--|

CPU

| | |
|-------------------|----------------------------------|
| Processor Support | Alder Lake P28 Series Core i5/i7 |
| Socket Type | BGA |

Operating Systems

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|-----------|---|
| Preloaded | Windows 11 Pro 64 (21H2) Windows 11 Home 64 (21H2) Windows 11 Home Single Language 64(21H2) Windows 11 Home Chinese Language Edition 64(21H2) Ubuntu (Version20.04) |
| Supported | Windows 11 Pro 64 (21H2) Windows 11 Home 64 (21H2) Windows 11 Home Single Language 64(21H2) Windows 11 Home Chinese Language Edition 64(21H2) Ubuntu (Version20.04) |

Memory

| | |
|----------------------|--|
| Number of DIMM Slots | 1 soldered-down DIMM + 1 DIMM slot |
| Channels | Single Channel w/ 1 soldered DIMM Dual Channel w/ 1 soldered DIMM + 1 add-in DIMM |
| Type | DDR4 |
| ECC Support | No |
| Speed | 3200 MHz |
| Max DIMM Size | 32GB |
| Max System Memory | 48GB |
| Min System Memory | 8GB |
| Soldered Memory | 8GB/16GB |

Storage

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|--------------------------------------|--|
| Storage Slots | 1 x PCIe Gen 4 M.2 2280 |
| SATA | / |
| PCIe | Solid State Drive, OPAL2 PCIe-NVMe Gen 4 M.2 2280- TLC |
| SAS | None |
| Interface | Yes->PCIe Gen 4 |
| Security | PCIE |
| Optional Hard Disk Drive Controllers | OPAL2 for NVMe SSD |

Video

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|---------------------|---|
| Integrated Graphics | Processor Graphics Intel® Iris Xe (dual RAM channel required) |
| Discrete Graphics | NVIDIA T550 |
| Adapter | None |
| Bus Interface | PEG |
| Disclaimers | Dual RAM channel required |

Display

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

Camera

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|-------------------|-----------|
| Resolution | FHD 1080p |
| Frames per Second | 30 fps |

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|------------------|--|
| Focus | Fixed 50cm |
| Camera Interface | USB 2.0 |
| IR Camera | Yes (optional) (with WWAN co-existence), Hybrid Camera |

Keyboard

| | |
|-----------------------|-----------------------------|
| Number of Keys | US : 84 / UK : 85 / JP : 89 |
| Numpad | No |
| Size | 100% ISO |
| Function Key Features | Yes |
| Backlit | Yes |
| Keyboard size | CS20 KYB |
| Key stroke | 1.5mm |
| Key pitch | 19.05mm |
| Keyboard backlight | Optional |
| Keyboard thickness | Standard |

Touchpad / Fingerprint Reader

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

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/DP2.0/PD) |
| HDMI | 1x HDMI 2.0b |
| Audio Combo Jack | 1x Microphone & Headphone Combo Jack (3.5mm) |
| Media Card Reader | N/A |
| Smart Card Reader | Yes (optional) |
| Power Connector | DC-In |
| Docking Port | Docking Via Thunderbolt 4 |

| | |
|-----------------|-------------------------|
| VirtualLink | None |
| Network adapter | Gigabit Ethernet (RJ45) |

Power Connector

| | |
|-------|--------------------------------|
| Main | DC-In |
| USB-C | 1x Thunderbolt 4 (USB-C/DP/PD) |

Ethernet

| | |
|------------|---|
| Vendor | Intel |
| 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 |

WWAN

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|-------|--|
| Model | Optional: CAT16/CAT4; Physical eSIM optional |
|-------|--|

Near Field Communications

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|-------|---------------|
| Model | Yes, optional |
|-------|---------------|

Audio

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

Power adapter

| | | | |
|---------------|-----------------------|---------------------|---------------------------|
| Type | 100W AC Adapter | 65W AC Slim Adapter | 65W AC Adapter |
| Dimensions | 108mm x 56mm x 26.5mm | 88mm x 51mm x 22mm | 108.5mm x 46.5mm x 29.5mm |
| Input Voltage | 100-240V | 100-240V | 100-240V |

Security

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|----------|-------------------|
| TPM | Yes, TPM2.0 |
| Asset ID | Yes |
| vPro | Yes on vPro model |

Chassis Information

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|-------------------|--|
| Color | Black/Storm Grey |
| Thermal Solutions | Internal Single FAN, Intelligent Cooling |
| Dimensions | Length 12.95 inches 329 millimeters Width 8.94 inches 227 millimeters Height 0.70 inches (Thickest 0.74 inches, Thinnest 0.52 inches) 17.9 millimeters (Thickest 18.9mm, Thinnest 13.14mm) |
| Weight | with3 Cell 39.3WHr Battery, Min 3.09lbs/1.40kg |

Packaging Parameters

| | |
|---------------|------|
| Height (mm) | 300 |
| Height (inch) | 11.8 |
| Width (mm) | 446 |
| Width (inch) | 17.6 |
| Depth (mm) | 81 |
| Depth (inch) | 3.1 |

| | |
|--------------|---------|
| Weight (kgs) | 0.32kg |
| Weight (lbs) | 0.71lbs |

Security & Serviceability

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|------------------------|---|
| Self Healing BIOS | No |
| Access Panel | Removeable bottom cover |
| Number of Screws | 6 |
| 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 + 1 SODIMM slot |
| 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 TPM 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 |

SECTION II: Platform Detail

Supported Components

| | |
|--------------------|--|
| Processor | Intel® Core™ i5-1240P (4+8C) Intel® Core™ i5-1250P (4+8C), vPro Intel® Core™ i7-1260P (4+8C) Intel® Core™ i7-1270P (4+8C), vPro Intel® Core™ i7-1280P (6+8C), vPro |
| Memory Support | DDR4 3200MHz SO-DIMM |
| Chipset (PCH) | Integrated Soc |
| Size of BIOS Flash | 16 MB |
| Super I/O | N/A |
| Clock | Crystal |
| Audio | Realtek High Definition Audio |
| Ethernet | Non-vPro model: Intel® Ethernet Connection I219-V (Jacksonville) vPro model: Intel® Ethernet Connection I219-LM (Jacksonville) |

Memory

| | |
|-----------------------------|--|
| System Capacity Options | i5 non-vPro & vPro: 8/16GB soldered-down + 8/16/32GB i7 non-vPro & vPro: 8/16GB soldered-down + 8/16/32GB |
| non-ECC | 8GB DDR4 3200 SDRAM/SoDIMM 16GB DDR4 3200 SDRAM/SoDIMM 32GB DDR4 3200 SoDIMM |
| Brand of non-ECC Memory | Samsung SK Hynix Micron Ramaxel |
| ECC | None |
| Brand of ECC Memory | N/A |
| Memory clock frequency(MHz) | 3200 MHz |

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 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 UnionMem WD Hynix Kioxia SSSTC |
| Intel Optane Storage Technology | Yes |
| RAID | Not Supported |

Removeable Media

| | |
|----------------------------------|-----|
| Media Card Reader Specifications | N/A |
|----------------------------------|-----|

SECTION III: Supported Component Detail

CPU Specifications

| | | | | | |
|--------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| CPU | Intel® Core™ i5-1240P (4+8C) | Intel® Core™ i5-1250P (4+8C) | Intel® Core™ i7-1260P (4+8C) | Intel® Core™ i7-1270P (4+8C) | Intel® Core™ i7-1280P (4+8C) |
| Integrated Graphics | Intel Iris Xe Graphics | Intel iGPU Iris Xe | Intel iGPU Iris Xe | Intel iGPU Iris Xe | Intel iGPU Iris Xe |
| # of Cores | 4 P Core+8 E Core | 4 P Core+8 E Core | 4 P Core+8 E Core | 4 P Core+8 E Core | 6 P Core+8 E Core |
| # of Threads | 16 | 16 | 16 | 16 | 20 |
| Processor Base Frequency | 1.7GHz | 1.7GHz | 2.1GHz | 2.2GHz | 1.8GHz |
| Max Turbo Frequency | 4.4GHz | 4.4GHz | 4.7GHz | 4.8GHz | 4.8GHz |
| Cache | 12MB | 12MB | 18MB | 18MB | 20MB |
| TDP | 20W-28W | 20W-28W | 20W-28W | 20W-28W | 20W-28W |
| Disclaimers | Dual RAM channel required | Dual RAM channel required | Dual RAM channel required | Dual RAM channel required | Dual RAM channel required |

Display Specifications

| | | | | | | |
|-------|-------|--------------------|-----------------|----------------|------|-------------|
| Model | WUXGA | WUXGA oncell touch | WUXGA low power | WUXGA ePrivacy | 2.2K | WQXGA +AOFI |
|-------|-------|--------------------|-----------------|----------------|------|-------------|

| | | | | | | |
|----------------------|--------------------|--------------------|---------------------------|--------------------|---------------------------|--|
| Resolution | 1920 x 1200 | 1920 x 1200 | 1920 x 1200 | 1920 x 1200 | 2240 x 1400 | 3840 x 2400 |
| Diagonal | 14" | 14" | 14" | 14" | 14" | 14" |
| Aspect Ratio | Ratio 16:10 | Ratio 16:10 | Ratio 16:10 | Ratio 16:10 | Ratio 16:10 | Ratio 16:10 |
| Backlight | LED | LED | LED | LED | LED | LED |
| PPI | 162 | 162 | 162 | 162 | 189 | 323 |
| Active Area | 302 x 188 | 302 x 188 | 302 x 188 | 302 x 188 | 302 x 188 | 302 x 188 |
| Refresh Rate | 48 / 60 Hz | 48 / 60 Hz | 48 / 60 Hz | 60Hz | 48 / 60 Hz | 48 / 60 Hz |
| Contrast Ratio | 700:1 (TYP) | 700:1 (TYP) | 800:1 (TYP) | 1000:1 (TYP) | 1500:1 (TYP) | 1500:1 (TYP) |
| Viewing Angle | 85/85/85/85 degree | 85/85/85/85 degree | 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% sRGB | 100% sRGB | 100% DCI-P3 |
| Brightness | 300nit | 300nit | 400nit | 500nit | 300nit | 500nit, HDR 400 |
| Contrast | Ratio 700:1 | Ratio 700:1 | Ratio 800:1 | Ratio 1000:1 | Ratio 1500:1 | Ratio 1500:1 |
| Color Depth | 16M | 16M | 16M | 16M | 16M | 1B |
| Interface | eDP 1.2 | eDP 1.2 | eDP 1.4 | eDP 1.4 | 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 | EDID in BIOS Table | EDID in BIOS Table |
| Weight | 305g max | 310g max | 240g max | 312g max | 235g max | 265g max |
| Color Calibrator | None | None | Adaptive ICC profile | None | ICC profile | X-Rite Factory Color Calibration, Dolby Vision |
| Panel Technology | IPS, Anti-Glare | IPS, Anti-Glare | IPS, Anti-Glare, LBL, TUV | IPS, Anti-Glare | IPS, Anti-Glare, LBL, TUV | IPS, Anti-Glare, LBL, TUV |
| Touch Panel | None | YES | None | YES | None | YES |

HDD Specifications

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

HDD Storage Device Specifications

| | |
|------------------------|-----|
| Connector | N/A |
| Transfer Rate (Gb/sec) | N/A |

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 |

HDD Power Management

| | |
|-----------------|-----|
| Input (VDC) | N/A |
| Typical (Watts) | N/A |
| Idle (Watts) | N/A |

HDD Dimensions

| | |
|-------------------|-----|
| Height (mm – Max) | N/A |
| Width (mm) | N/A |
| Depth (mm – Max) | N/A |
| Weight (grams) | N/A |

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 |

HDD Shock

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

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

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: 800k(2TB/1TB/512GB) Write: 700k(2TB/1TB/512GB) Value PCIe Gen4 Read: 300k (1TB/512GB/256GB) Write: 500k(1TB/512GB/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 6500MB/s (2TB/1TB/512GB) Value PCIe Gen4 3700MB/s (1TB/512GB/256GB) |
| Min Sequential Write | Performance PCIe Gen4 5000MB/s (2TB/1TB/512GB) Value PCIe Gen4 2800MB/s (1TB/512GB/256GB) |
| Hardware Encryption | Yes |

Discrete Graphics Adapter

| | |
|-----------------------|---------|
| GPU Name | T550 |
| CUDA Processing Cores | 1024 |
| GPU Memory | 4 GB |
| Memory Bandwidth | 48 GBps |
| Memory Type | GDDR6 |
| Memory Interface | 64-bit |
| Display Port | 1.4 |
| OpenGL | 4.5 |

| | |
|--|------|
| Shader Model | 5.1 |
| DirectX | 12.1 |
| PCIe Generation | 3 |
| Floating-Point Performance | 1.1 |
| VR Ready | No |
| Simultaneous Multi-Projection | No |
| NVIDIA FXAA/TXAA Antialiasing | Yes |
| NVIDIA nView Display Management Technology | Yes |
| GPU Direct for Video | No |
| Vulkan Support | Yes |
| NVIDIA Optimus | Yes |

WLAN

| | | |
|--|--|-------------------|
| Model | INTEL WIFI 6E_AX211 CNVi_2X2AX+BT5.2 | Qualcomm NFA-725A |
| Connector: Main, Aux/GNSS, GNSS | ANT1:AUX WiFi + BT; ANT2: Main WiFi | Coming Soon |
| Antenna Diversity | Supported | Coming Soon |
| MIMO | Supported | Coming Soon |
| GNSS Bian | N/A | Coming Soon |
| Radio ON/OFF Control | Supported | Coming Soon |
| Connector interface | CNVi | Coming Soon |
| Operating Temperature (Adapter Shield) | 0c to +80c | Coming Soon |
| Humidity Non-Operating | 50%~90% Rh non condensing (at temperatures of 25c to 35c) | Coming Soon |
| Operating Systems | Microsoft Windows 7*, Microsoft Windows 8.1*, Microsoft Windows 10*, Linux* (limited feature support), Android | Coming Soon |
| 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. | Coming Soon |
| 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 | Coming Soon |
| Roaming | Support seamless roaming between access points | Coming Soon |
| Bluetooth* | Dual Mode Bluetooth® 5.0, BLE | Coming Soon |

| | | |
|--------------------------|---|-------------|
| Authentication | WPA and WPA2, 802.1X (EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA, EAP-AKA | Coming Soon |
| Authentication Protocols | PAP, CHAP, TLS, MS-CHAP*, MS-CHAPv2 | Coming Soon |
| Encryption | 64-bit and 128-bit WEP, 128-bit AES-CCMP | Coming Soon |
| Regulatory | For a list of country approvals, please contact your local Intel representatives. | Coming Soon |
| US Government | FIPS10, FISMA | Coming Soon |
| Product Safety | UL,C-UL,CB (IEC 60950-1) | Coming Soon |
| Disclaimers | 6GHz channel of Wi-Fi 6E is only available with Windows 11 | Coming Soon |

Battery

| | | |
|-----------------------------|--|---|
| Dimension | 270 mm x 68.5 mm x 6.16 mm | 270 mm x 68.5 mm x 6.16 mm |
| Weight | 173g | 212g |
| Type (Chemistry and Cell) | Li-ion Polymer | Li-ion Polymer |
| Voltage | 11.58V ~ 11.61V | 15.44V ~ 15.48V |
| Battery Life | Up to 15.7 hrs (MM18) | |
| Battery Capacity | Integrated 3-cell 39.3Wh battery | Integrated 4-cell 52.5Wh battery |
| Charging Time | 0% to 100% 0% to 80% Battery Charging Time (in-operation) 2.06 hr Battery Charging Time (off) 1.89 hr 0.92 hr | 0% to 100% 0% to 80% Battery Charging Time (in-operation) 2.39hr Battery Charging Time (off) 1.98 hr 0.99 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 |

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. |

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

EMC & Safety

| | |
|--------|---|
| EMC | <p>Published, Certified Existing Reports</p> <ul style="list-style-type: none"> 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 | <p>To access the latest User Guide and Safety and Warranty Guide, go to: https://support.lenovo.com</p> <p>Low Halogen Declaration of Conformance TNOT-2017-0040 Section 9 – Low Halogen Scorecard Izod Test – EPEAT Compliant 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,</p> |

Taiwan, Tajikistan, Tanzania, Thailand, Togo, Tunisia, Turkey, Turkmenistan, Uganda, Ukraine, United Arab Emirates, Uruguay, USA/Territories, Uzbekistan, Venezuela, Vietnam, Zambia, Zimbabwe, Brazil – Inmetro I70 Govt Bids, Guinea-Bissau, Lesotho

Environmentals

| | |
|----------------------|--|
| Energy Star | ENERGY STAR® Version 8.0 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 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: 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-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. |

Environmentals

| | |
|----------------|------------------|
| Energy Star | ENERGY STAR® 8.0 |
| EPEAT | EPEAT® Gold |
| RoHS Compliant | RoHS Compliant |
| TCO | TCO 9.0 |

| | |
|----------------|---|
| Sustainability | 97% PCC recycled plastic: Speaker enclosure 97% recycled plastic: 52.5WHr Battery 95% PCC recycled plastic: 65W PSU 90% recycled/sustainable packaging Low-temperature solder |
| Disclaimers | 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. |