

Lenovo P14s Gen 3 AMD

Version: 2.0 | 05/05/2023

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 | AMD Pro 6650U AMD Pro 6850U |
| Socket Type | BGA |

Operating Systems

| | |
|-----------|--|
| Preloaded | Windows 11 Pro 64 (21H2) Windows 10 Pro (preinstalled through downgrade rights in Windows 11 Pro) Windows 11 Home 64 (21H2) Windows 11 Home Single Language 64(21H2) Windows 11 Home Chinese Language Edition 64(21H2) Windows 11/DG10 CMIT Government Edition Ubuntu (Version20.04) |
| Supported | Windows 11 Pro 64 (21H2) Windows 10 Pro (preinstalled through downgrade rights in Windows 11 Pro) Windows 11 Home 64 (21H2) Windows 11 Home Single Language 64(21H2) Windows 11 Home Chinese Language Edition 64(21H2) Windows 11/DG10 CMIT Government Edition Ubuntu (Version20.04) |

Memory

| | |
|----------------------|---------------------|
| Number of DIMM Slots | No |
| Channels | Dual Channel LPDDR5 |
| Type | LPDDR5 |
| ECC Support | No |
| Speed | 6400 MHz |
| Max DIMM Size | No |
| Max System Memory | 32GB |
| Min System Memory | 16GB |
| Soldered Memory | 8/16GB |

Storage

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

| | |
|---------------------|----------------------|
| Integrated Graphics | AMD Radeon™ Graphics |
| Discrete Graphics | N/A |
| Adapter | None |
| Bus Interface | NA |

Display

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

Camera

| | |
|-------------------|--|
| Resolution | FHD 1080p |
| Frames per Second | 30 fps |
| 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 Type-A 3.1 Gen1, 2x Type-C (DP 1.4, USB3.2 Gen2, PD) |
| Thunderbolt | N/A |

| | |
|-------------------|--|
| 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 | 2x Type-C |
| VirtualLink | None |
| Network adapter | Gigabit Ethernet (RJ45) |

Power Connector

| | |
|-------|-------------------------------------|
| Main | DC-In |
| USB-C | 2x Type-C (DP 1.4, USB3.2 Gen2, PD) |

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 |

WWAN

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

Near Field Communications

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

Audio

| | |
|------------------------------------|---|
| Vendor | Realtek |
| Type | High Definition Audio Codec |
| Internal Speaker | Yes, dual speakers |
| Connectors | Microphone & Headphone Combo Jack (3.5mm) |
| Chipset | ALC3287 |
| Number of Channels | 4-channel DAC, 4-channel ADC |
| Number of Bits/Audio Resolution | 16/20/24-bit PCM format |
| Sampling Rate (Recording/Playback) | n |
| Signal to Noise Ratio | 90dB Signal-to-Noise Ratio (A-weighting) for ADC input. 100dB Signal-to-Noise Ratio (A-weighting) for DAC output |
| Analog Audio | None |
| Dolby Digital | Yes |
| Digital Out (S/PDIF) | No |
| Speaker Power Rating | 2W@4ohm/ch |

Power adapter

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

Security

| | |
|--------------------|-------------|
| TPM | Yes, TPM2.0 |
| Asset ID | Yes |
| AMD Pro Technology | Yes |

Chassis Information

| | |
|-------------------|--|
| Color | Black |
| Thermal Solutions | Internal Single FAN, Intelligent Cooling |
| Dimensions | 317.7 x 226.9 x 17.9 mm |
| Weight | with 3 Cell 39.3Whr Battery, Min 2.82lbs /1.28kg |

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

| | |
|------------------------|---|
| Self Healing BIOS | Yes |
| 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 |
| Storage Slots | 1 storage slot |
| Memory | 2 soldered down RAM |
| System Board | 1190 System Board. No self-service CRU. |
| Restore CD/DVD/USB Set | None. Purchase via Lenovo Customer Support Center |
| Cable Lock Support | Security-lock slot |
| Power-On Password | Yes |
| Hard Disk Password | Yes; User and Master hard disk password |
| Supervisor Password | Yes |
| NIC LEDs (integrated) | Yes (if it means the LED for Ethernet) |
| Security Chip | Yes (for TPM 2.0) |
| Access Panel Key Lock | Bottom Cover Tamper Detection |
| Boot Sequence Control | Yes |

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 |

SECTION II: Platform Detail

Supported Components

| | |
|--------------------|--|
| Processor | AMD Ryzen 5 RPO 6650U AMD Ryzen 7 RPO 6850U |
| Memory Support | LPDDR5 6400MHz |
| Chipset (PCH) | Integrated Soc |
| Size of BIOS Flash | 256 Mb |
| Clock | Crystal |
| Audio | Realtek High Definition Audio |
| Ethernet | Realtek RTL8111EPV Co-lay Realtek RTL8111H |

Memory

| | |
|-----------------------------|--|
| System Capacity Options | R5 Pro-6650U 8C: 16/32GB soldered-down R7 Pro-6850U 8C: 16/32GB soldered-down |
| non-ECC | 16/32GB LPDDR5 6400MHz |
| Brand of non-ECC Memory | SK Hynix Micron |
| ECC | None |
| Brand of ECC Memory | N/A |
| Memory clock frequency(MHz) | 6400 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 WD Hynix Kioxia Micron |
| Intel Optane Storage Technology | No |
| RAID | Not Supported |

Removeable Media

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

SECTION III: Supported Component Detail

CPU Specifications

| | | |
|--------------------------|---|---|
| CPU | AMD Rembrandt R5 Pro-6650U | AMD Rembrandt R7 Pro-6850U |
| Integrated Graphics | AMD Radeon™ Graphics + AMD Pro APU Driver | AMD Radeon™ Graphics + AMD Pro APU Driver |
| # of Cores | 6 cores | 8 cores |
| # of Threads | 12 | 16 |
| Processor Base Frequency | 2.9GHz | 2.7GHz |
| Max Turbo Frequency | 4.5GHz | 4.7GHz |
| Cache | 19MB | 20MB |
| TDP | 15-30w | 15-30w |
| Intel ARK Spec Link | AMD Ryzen-5-pro-6650u | AMD Ryzen-7-pro-6850u |

Display Specifications

| | | | | |
|-------|-------|--------------------|-----------------|--------------|
| Model | WUXGA | WUXGA oncell touch | WUXGA low power | WQUXGA+AOF T |
|-------|-------|--------------------|-----------------|--------------|

| | | | | |
|---|--------------------|--------------------|---------------------------|--|
| Resolution | 1920 x 1200 | 1920 x 1200 | 1920 x 1200 | 3840 x 2400 |
| Diagonal | 14" | 14" | 14" | 14" |
| Aspect Ratio | Ratio 16:10 | Ratio 16:10 | Ratio 16:10 | Ratio 16:10 |
| Backlight | LED | LED | LED | LED |
| PPI | 162 | 162 | 162 | 323 |
| Active Area | 302 x 188 | 302 x 188 | 302 x 188 | 302 x 188 |
| Refresh Rate | 48 / 60 Hz | 48 / 60 Hz | 48 / 60 Hz | 48 / 60 Hz |
| Contrast Ratio | 700:1 (TYP) | 700:1 (TYP) | 800:1 (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 |
| Color gamut | 45% NTSC | 45% NTSC | 100% sRGB | 100% DCI-P3 |
| Brightness | 300nit | 300nit | 400nit | 500nit, HDR 400 |
| Contrast | Ratio 700:1 | Ratio 700:1 | Ratio 800:1 | Ratio 1500:1 |
| Color Depth | 16M | 16M | 16M | 1B |
| 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 | 305g max | 310g max | 240g max | 265g max |
| Color Calibrator | None | None | Adaptive 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, LBL, TUV |
| Touch Panel | None | YES | None | YES |
| 2.5" SAS Hard Disk Drive (HDD) | N/A | | | |
| 2.5" SATA Hard Disk Drive (HDD) | N/A | | | |
| Connector | N/A | | | |
| Transfer Rate (Gb/sec) | N/A | | | |
| 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 | | | |
| Input (VDC) | N/A | | | |
| Typical (Watts) | N/A | | | |
| Idle (Watts) | N/A | | | |
| Height (mm - Max) | N/A | | | |

| | |
|---------------------------|-----|
| Width (mm) | N/A |
| Depth (mm - Max) | N/A |
| Weight (grams) | N/A |
| Operating(C) Ambient | N/A |
| Operating(C) Base Casting | N/A |
| Non-Operating(C) Ambient | N/A |
| Gradient(C per Hour) | N/A |
| 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 | Read: 250K (2TB, 1TB, 512GB), 200K (256GB) Write: 240K (2TB, 1TB, 512GB), 190K (256GB) Burst 4K Random IOPS , Measured by Crystal Disk Mark (QD32T1, Data size set 1GB) |
| Bandwidth Performance | PCIe Gen3x4 (8Gb/S) PCIe Gen4x4 (16Gb/S) |
| Power Consumption (Max) | 3.0A (duration for 10 us) |
| Active(AVG) | 5W |
| Idle | 5mW (L1.2) |
| Min MTBF | 2,000,000 (h) |
| Min Sequential Read | 3000MB/s (2TB, 1TB, 512GB), 2900MB/s (256GB) (value) |
| Min Sequential Write | 1600MB/s (2TB, 1TB/512GB), 900MB/s (256GB) (value) |
| Hardware Encryption | Yes |

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

WLAN

| | |
|--|--|
| Model | Qualcomm NFA-725A M.2 1418 solder-down module |
| Connector: Main, Aux/GNSS, GNSS | ANT1:AUX WiFi + BT; ANT2: Main WiFi |
| Antenna Diversity | Supported |
| MIMO | Not supported |
| GNSS Bian | N/A |
| Radio ON/OFF Control | Supported |
| Connector interface | PCIE |
| Operating Temperature (Adapter Shield) | 0c to +80c |
| Humidity Non-Operating | 50%~90% Rh non condensing (at temperatures of 25c to 35c) |
| Operating Systems | Microsoft Windows 7*, Microsoft Windows 8.1*, Microsoft Windows 10*, Linux* (limited feature support), Android |
| 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, 802.11d, 802.11e, 802.11h, 802.11i, 802.11w; 802.11r, 802.11k, 802.11v pending OS support; Fine Timing Measurement based on 802.10REVmc | |
| Roaming | Support seamless roaming between access points | |
| Bluetooth* | Dual Mode Bluetooth® 5.2, BLE | |
| 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 | 6GHz channel of Wi-Fi 6E is only available with Windows 11 | / |

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 9.7hrs (MM18) | Up to 9.7hrs (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 | Published, Certified Existing Reports EMC - Australia EMC - Belarus EMC - Canada EMC - EU/EFTA EMC - Japan EMC - Kazakhstan EMC - New Zealand EMC - Russia EMC - South Korea 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 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, 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, 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 |

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. |