

Lenovo ThinkPad P72

Version: 1 | 06/17/2020

DOWNLOADS

Hardware Maintenance Manual	P72 HMM
Drivers & Software	P72 Drivers & Software

SECTION I: SYSTEM OVERVIEW

Description	Sometimes in life you need the best, and the ThinkPad® P72 is just that: best for power and best for performance. Packed inside this 17-inch chassis are the latest 8th Gen Intel® Xeon® and Core™ processors and the most powerful NVIDIA® Quadro® graphics to tackle the most demanding workflows with ease. Handle extensive data sets and vast amounts of computing power with up to 6TB of total storage and a massive 128GB of memory. And to top it all off, we offer up a brilliant UHD display with 400nits of brightness, 100% Adobe color gamut and 10-bit color depth for over 1 billion accurate colors.
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CPU

Processor Support	Intel 8th gen Coffee Lake H Series Core i7 Intel 8th gen Coffee Lake H Series Core i9 Intel 8th gen Coffee Lake H Series Xeon
Socket Type	BGA

Operating Systems

Preloaded	Windows 10 Pro 64-bit for Workstations Windows 10 Pro 64-bit Windows 10 Home 64-bit Windows 10 Single Language Home 64-bit
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	Windows 10 Home Chinese Language Edition 64-bit Ubuntu Linux No Operating System
Supported	Windows 10 Pro 64-bit for Workstations Windows 10 Pro 64-bit Windows 10 Home 64-bit Windows 10 Single Language Home 64-bit Windows 10 Home Chinese Language Edition 64-bit Ubuntu Linux No Operating System

Memory

Number of DIMM Slots	Up to 4 DIMM sockets: Top x2; Bot x2
Channels	Single Channel w/ 1DIMM Dual Channel w/ 2DIMMs
Type	DDR4, SO-DIMM, ECC non-ECC
ECC Support	Yes
Speed	Up to 2666 MHz
Max DIMM Size	32GB
Max System Memory	128GB
Min System Memory	8GB
Soldered Memory	None

Storage

Storage Slots	3 slots
SATA	1x 2.5" SATA HDD
PCIe	Solid State Drive, OPAL2 PCIe-NVMe M.2 2280-S3 - TLC
SAS	HDD 500GB 7200 1TB 7200 2TB 5400 SSD 256GB OPAL2 TLC PCIe-NVMe 512GB OPAL2 TLC PCIe-NVMe 1024GB OPAL2 TLC PCIe-NVMe 512GB OPAL2 MLC PCIe-NVMe 16GB Optane PCIe M.2
Interface	500GB FIPS140-2 7200rpm 7mm
Security	Optional, Selectable in BIOS
Optional Hard Disk Drive Controllers	RAID 0/1

Video

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Integrated Graphics	For Intel® i7-8750H Processor Graphics Intel® UHD Graphics 630 Utilized via “Hybrid Mode” in BIOS For Intel® i7-8850H Processor Graphics Intel® UHD Graphics 630 Utilized via “Hybrid Mode” in BIOS For Intel® Xeon® E-2176M Processor Processor Graphics Intel® UHD Graphics P630 Utilized via “Hybrid Mode” in BIOS For Intel® Xeon® E-2186M Processor Processor Graphics Intel® UHD Graphics P630 Utilized via “Hybrid Mode” in BIOS
Discrete Graphics	NVIDIA Quadro P600, P2000, P3200, P4200, P5200
Adapter	None
Bus Interface	PEG

Display

Resolutions	FHD / UHD
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Camera

Resolution	IR 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	Como 2018 Full size KB with NumPad (Top loading)
Key stroke	1.8mm
Key pitch	19.05 mm(Vertical & Horizontal)
Keyboard backlight	Optional
Keyboard thickness	4.55mm

Touchpad / Fingerprint Reader

TrackPoint Details	COMO TrackPoint module (t5.55mm)
Finger Print Reader Model	Synaptics Metallica 8x8 FPR, MoC
Multi-Touch	Yes
Resolution	1000 ppi
TouchPad/Trackpad thickness	0.8mm +/- 0.1mm
TouchPad/Trackpad type	TouchPad
Trackpad size	99mm x 58.4mm
Trackpad material/finish	Mylar surface

I/O - Ports and Connectors

USB	4 x USB 3.0 (1x Powered)
Thunderbolt	Thunderbolt 3, 2 ports (USB Type-C)
HDMI	1x HDMI (2.0), DP1.4
Audio Combo Jack	1x Microphone & Headphone Combo Jack (3.5mm)
Media Card Reader	Dedicated Media Card Reader (UHS-II)
Smart Card Reader	1x Smart Card Reader
Power Connector	DC-In
Docking Port	Docking Via Thunderbolt 3 / USB-C
VirtualLink	None
Network adapter	Gigabit Ethernet (RJ45)

Power Connector

Main	DC-In
USB-C	2x Thunderbolt 3 (USB-C/DP/PD)

Ethernet

Vendor	Intel
Count	x1
EEPROM	BIOS/ME FW SPI ROM TBT FW SPI ROM
Speeds	10/100/1000 Mbps
Functions	Wake On LAN

	MAC Address Pass Through PXE Boot Flash Over LAN
Connectors	RJ45

WWAN

Model	No WWAN Supported
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Near Field Communications

Model	Foxconn P/N T77H747.01 (NXP NPC300)
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Audio

Vendor	Realtek
Type	Intel High Definition Audio (2 channel)
Internal Speaker	2 channel
Connectors	Microphone & Headphone Combo Jack (3.5mm)
Chipset	ALC3286
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: 95dB FSA Headphone Out@32ohm: 100dB FSA
Analog Audio	None
Dolby Digital	Dolby DAX3
Digital Out (S/PDIF)	No
Speaker Power Rating	2W@4ohm/ch

Power adapter

Type	230W AC Adapter
Dimensions	510cc (200 x 100 x 25.4)
Input Voltage	100-240V

Security

TPM	Version 2.0
Asset ID	Yes
vPro	Intel vPro for WS

Chassis Information

Format	Clamshell
Color	Midnight Black
Thermal Solutions	Internal Dual FAN, Intelligent Cooling
Dimensions	Length 16.38 inches 416 millimeters Width 11.06 inches 281 millimeters Height 1.02 inches (front) 25.9mm (front) 1.22 inches (rear) 31mm (rear) 1.34 (rear w/ feet) 34mm (rear w/ feet)
Weight	with 6 cell 99WHr Battery, Min 7.5 lbs / 3.41kg Max 8.00 lbs/3.63 kg

Packaging Parameters

Height (mm)	341
Width (mm)	97
Depth (mm)	493

Security & Serviceability

Self Healing BIOS	No
Access Panel	Removeable bottom cover
Number of Screws	See Hardware Maintenance Manual for Details
Swappable Components	Bottom cover, memory module, M.2 solid-state drive, speaker assembly, coin-cell battery, TrackPoint pointing cap, keyboard, WLAN Card, Power Button Cable, Hinge Caps, LCD Unit, Chassis Assembly, Dummy Smart Card Reader, System Board,
Storage Slots	3 slots
Memory	4 SODIMM slots
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

Operating - Air Temperature	At altitudes up to 2438 m (8000 ft) - Operating: 5°C to 35°C (41°F to 95°F) At altitudes up to 3,048 m (10,000 ft) - Operating 5.0°C - 31.3°C (41°F - 88°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: SUPPORTED COMPONENTS

Supported Components

Processor	Intel® Core™ i7-8750H processor (2.2 GHz/6 Core/9M) Intel® Core™ i7-8850H vPro processor (2.6 GHz/6 Core/9M/V-Pro) Intel® Xeon™ E-2176M v7 vPro processor (2.7 GHz/6 Core/12M/V-Pro) Intel® Xeon™ E-2186M v7 vPro processor (2.9 GHz/6 Core/12M/V-Pro)
Memory Support	DDR4 2666MHz SO-DIMM
Chipset (PCH)	Mobile Intel® CM246 Chipset
Size of BIOS Flash	8MB for Non-vPro model, 16MB for vPro model
Super I/O	None
Clock	Crystal
Audio	Realtek High Definition Audio
Ethernet	Intel® Ethernet Connection I219

Memory

System Capacity Options	8GB 16GB 32GB 64GB 128GB
non-ECC	8GB DDR4 2666 SoDIMM 16GB DDR4 2666 SoDIMM 32GB DDR4 2666 non-ECC SoDIMM
Brand of non-ECC Memory	Samsung SK Hynix Micron
ECC	8GB DDR4 2666 ECC SoDIMM 16GB DDR4 2666 ECC SoDIMM 32GB DDR4 2666 ECC SoDIMM
Brand of ECC Memory	SK Hynix Samsung
Memory clock frequency(MHz)	2666 MHz

Storage

2.5" SAS Hard Disk Drive (HDD)	None
2.5" SATA Hard Disk Drive (HDD)	500GB 7200rpm 7mm HDD 1TB 7200rpm 7mm HDD 2TB 5400rpm 7mm HDD 500GB FIPS140-2 7200rpm 7mm
2.5" SATA Solid State Drive (SSD)	None
M.2 (NGFF) PCIe Solid State Drive (SSD)	256GB SATA (M.2 2280) 256GB Opal 2 PCIe TLC NVMe 3X2 (M.2 2280) 512GB Opal 2 PCIe TLC NVMe 3X2 (M.2 2280) 512GB Opal 2 PCIe MLC NVMe 3X2 (M.2 2280) 1TB Opal 2 PCIe TLC NVMe 3X2 (M.2 2280) 2TB Opal 2 PCIe TLC NVMe 3X2 (M.2 2280)
2.5" PCIe Solid State Drive (SSD)	None
Brand of Drive	Seagate Samsung Toshiba Intel
Intel Optane Storage Technology	None
RAID	Optional, Selectable in BIOS
RAID Level and Requirements	RAID-0/1

Removeable Media

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SECTION III: Supported Component Detail

CPU Specifications

CPU	Intel® Core™ i7-8750H processor (2.2 GHz/6 Core/9M)	Intel® Core™ i7-8850H vPro processor (2.6 GHz/6 Core/9M/V-Pro)	Intel® Xeon™ E-2176M v7 vPro processor (2.7 GHz/6 Core/12M/V-Pro)	Intel® Xeon™ E-2186M v7 vPro processor (2.9 GHz/6 Core/12M/V-Pro)
Integrated Graphics	Intel® UHD Graphics 630	Intel® UHD Graphics 630	Intel® UHD Graphics P630	Intel® UHD Graphics P630
# of Cores	6	6	6	6
# of Threads	12	12	12	12
Processor Base Frequency	2.20 GHz	2.60 GHz	2.70 GHz	2.90 GHz
Max Turbo Frequency	4.10 GHz	4.30 GHz	4.40 GHz	4.80 GHz
Cache	9 MB	9 MB	12 MB	12 MB
TDP	35 - 45 W	35 - 45 W	35 - 45 W	35 - 45 W
Intel ARK Spec Link	Intel Core i7-8750H	Intel Core i7-8850H	Intel Xeon E-2176M	Intel Xeon E-2186M

Display Specifications

Model	FHD	UHD non-touch
Resolution	FHD (1920 x 1080)	4K UHD (3840 x 2160)
Diagonal	17.3"	17.3"
Aspect Ratio	Ratio 16:9	Ratio 16:9
Backlight	LED	LED
PPI	FHD : 141	UHD : 282
Active Area	FHD : 344.16mm x 193.59mm	UHD : 344.2176mm x 193.6224
Refresh Rate	Max 60Hz	Max 60Hz
Contrast Ratio	FHD : Typ 700	UHD : Typ 1000
Viewing Angle (*1)	FHD: 85/85/85/85 degree	UHD: 85/85/85/85 degree
Color gamut	FHD 72% NTSC	UHD 100% Adobe
Brightness	300 nits for FHD w/o touch	UHD: 400 nits
Color Depth	FHD: Native 262K (RGB 6-bit +	UHD: Native 16M (RGB 8-bit data

	FRC)	driver)
Interface	FHD: eDP 1.2	UHD: eDP 1.3
Panel ID Recognition	EDID in BIOS Table	EDID in BIOS Table
Weight	FHD: 550g	UHD: 550g
Color Calibrator	None	None
Panel Technology	IPS, Anti-Glare	IPS, Matte
Touch Panel	None	None

HDD Specifications

2.5" SATA Hard Disk Drive (HDD)	Yes
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HDD Storage Device Specifications

Connector	SATA
Transfer Rate (Gb/sec)	6.0Gb/s

HDD Performance

Spindle Speed(RPM)	5400RPM&7200RPM
Power off to Spindle Stop(sec)	10 max
DC Power to Drive Ready(sec)	No Power to ATA Command Accept(seconds) 500G/1TB(1 Platter) - 3 2TB(2 Platter) - 4
Receipt of Start Unit Command to Drive Ready(sec)	Standby to Ready(seconds) 3 Max Unloaded to Ready(seconds) 1 Max
Average Latency(msec)	10 Max

HDD Power Management

Input (VDC)	12V
Typical (Watts)	5400-> 5.0, 7200-> 5.5 (Spind up)(Max)
Idle (Watts)	5400-> 1.1, 7200-> 1.3 (Typcial)
Height (mm - Max)	7.0 +/- 0.2
Width (mm)	69.85 +/- 0.25
Depth (mm - Max)	100.2 +/- 0.25

Weight (grams)	5400rpm - 95 Max 7200rpm - 95 Max
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HDD Temperature

Operating(C) Ambient	0 to 55
Operating(C) Base Casting	Surface Temperature (disk enclosure side): 60C for 5400RPM 63C for 7200RPM Surface Temperature (card side of device): 63C
Non-Operating(C) Ambient	-40 to 65
Gradient(C per Hour)	20 max

HDD Shock

Operating(Gs @ 2ms)	350
Non-Operating(Gs @ 2ms)	N/A (1000G/1ms)

SSD Specifications

2.5" SATA Solid State Drive (SSD)	N/A
M.2 (NGFF) PCIe Solid State Drive (SSD)	2x M.2 2280 PCIe & SATA
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 2280
Interface Type	PCIe NVMe
Read/Write IOPS Specifications	Read: 250K (512GB/1TB/2TB), 200K (256GB) Write: 240K (512GB/1TB/2TB), 190K (256GB) IOPS, 4K Random, 32 q depth, 4 threads
Bandwidth Performance	PCIe Gen3x4 (8Gb/S)
Power Consumption (Max)	5.0W

Active(AVG)	5.0W (Sequential read)
Idle	5mW (Low power state)
Min MTBF	2,000,000 (h)
Min Sequential Read	3000MB/s (512GB/1TB/2TB), 2900MB/s (256GB)
Min Sequential Write	1600MB/s (512GB/1TB/2TB), 900MB/s (256GB)
Hardware Encryption	Yes

Discrete Graphics Adapter

GPU Name	Quadro P600	Quadro P2000	Quadro P3200	Quadro P4200	Quadro P5200
CUDA Processing Cores	384	768	1792	2304	2560
GPU Memory	4 GB	4 GB	6 GB	8 GB	16 GB
Memory Bandwidth	80 GBps	96 GBps	169 GBps	224 GBps	230 GBps
Memory Type	GDDR5	GDDR5	GDDR5	GDDR5	GDDR5
Memory Interface	128-bit	128-bit	192-bit	256-bit	256-bit
TGP Max Power Consumption	25W	50W	78W	115W	150W
Display Port	1.4	1.4	1.4	1.4	1.4
OpenGL	4.5	4.5	4.5	4.5	4.5
Shader Model	5	5	5.1	5.1	5.1
DirectX	12	12	12	12	12
PCIe Generation	3	3	3	3	3
Floating-Point Performance	1.2	2.4	5.3	7.6	8.9
VR Ready	No	No	Yes	Yes	Yes
Simultaneous Multi-Projection	Yes	Yes	Yes	Yes	Yes
NVIDIA FXAA/TXAA Antialiasing	Yes	Yes	Yes	Yes	Yes
NVIDIA nView Display Management Technology	Yes	Yes	Yes	Yes	Yes
GPU Direct for Video	No	No	No	Yes	Yes
Vulkan Support	Yes	Yes	Yes	Yes	Yes
NVIDIA Optimus	Yes	Yes	Yes	Yes	Yes

WLAN

Model	Intel Wireless AC-9560 (2x2 11ac w/ 160MHz channels) and Bluetooth 5.0 vPro
Connector: Main, Aux/GNSS, GNSS	ANT1: Wi-Fi (chain A) + BT; ANT2: Wi-Fi (chain B)

Antenna Diversity	Supported
MIMO	Supported
GNSS Bian	N/A
Radio ON/OFF Control	Supported
Connector interface	M.2 CNVio
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 10*, Linux*(limited feature support), Chrome*
Wi-Fi Alliance	Wi-Fi CERTIFIED* a/b/g/n/ac 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, 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*	BT5.0
Authentication	WPA* and WPA2*, 802.1X (EAP-TLS, TTLS, PEAP, EAP-SIM, EAP-AKA, EAP-AKA')
Authentication Protocols	PAP, CHAP, TLS, MS-CHAP*, MS-CHAPv2
Encryption	64-bit and 128-bit WEP, TKIP, 128-bit AES-CCMP, 128-bit and 256-bit AES-GCMP
Regulatory	All compliance
US Government	FIPS12, FISMA
Product Safety	UL,C-UL,CB (IEC 60950-1)

Battery

Dimension	L: 71.2mm*W: 286.6mm*T 13.1mm
Weight	MAX 475g
Type (Chemistry and Cell)	Li-Polymer (3S2P), 6-cell
Voltage	11.25V
Battery Life	Up to 10 hours MM14 (with iGPU configuration)
Battery Capacity	99Wh
Charging Time	On Charge Time (0- 100%) * 120 min Off Charge Time (0 - 80%) ** 53 min Off Charge Time (0 - 100%) ** 117 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-NZ(MHLF)-D

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	Yes
Asset Tag	Yes
Remote Wakeup/Remote Shutdown	Yes, if Remote wakeup is Wake on LAN from S4/S5. I don't know the Remote shutdown situation.
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 Low Halogen Declaration of Conformance TNOT-2017-0040 Section 9 - Low Halogen Scorecard

	<p>Izod Test - EPEAT Compliant Homologation PCR B Compliant In the following countries: Albania, Algeria, Andorra, Angola, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Azerbaijan, Bahamas, Bahrain, Bangladesh, Barbados, Belarus, Belize, Benin, Bermuda, Bolivia, Botswana, Burkina Faso, Burundi, Cambodia, Cameroon, Canada, Cape Verde, Cayman Islands, Central African Republic, Chad, China, Colombia, Comoros, Congo, Costa Rica, Djibouti, Dominican Republic, Egypt, El Salvador, Eritrea, Ethiopia, EU/EFTA, Fiji, Gabon, Gambia, Georgia, Ghana, Grenada, Guatemala, Guinea, Haiti, Honduras, Hong Kong, India, Indonesia, Israel, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Kuwait, Laos, Lebanon, Liberia, Macau, Madagascar, Malawi, Malaysia, Mali, Mauritania, Mauritius, Mexico, Moldova, Mongolia, Morocco, Mozambique, Namibia, Nepal, New Zealand, Nicaragua, Niger, Nigeria, Oman, Pakistan, Panama, Papua New Guinea, Paraguay, Peru, Philippines, Qatar, Russia, Saudi Arabia, Senegal, Serbia, Seychelles, Sierra Leone, Singapore, South Africa, South Korea, Sri Lanka, Swaziland, Taiwan, Tajikistan, Tanzania, Thailand, Togo, Tunisia, Turkey, Turkmenistan, Uganda, Ukraine, United Arab Emirates, Uruguay, USA/Territories, Uzbekistan, Venezuela, Vietnam, Zambia, Zimbabwe, Brazil - Inmetro 170 Govt Bids, Guinea-Bissau, Lesotho</p>
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Environmentals

Energy Star	ENERGY STAR® Version 7.0 For more information about ENERGY STAR, go to: https://www.energystar.gov
EPEAT	EPEAT 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 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.