

LICITACIÓN PÚBLICA LOCAL No. AD/CC/063/2023
"ADQUISICIÓN DE EQUIPOS DE CÓMPUTO PARA CENTROS DE DESARROLLO
Y CENTROS DE ATENCIÓN"

000 001

Zapopan, Jalisco a 18 de diciembre 2023

ANEXO 1

PROPUESTA TÉCNICA

1.) OBJETO DE LA PRESENTE LICITACIÓN

"Adquisición de Equipo de Cómputo para centros de desarrollo y centros de atención perteneciente al Sistema DIF Zapopan, mismos que se requiere para su operación.

2.) CANTIDADES Y CARACTERÍSTICAS REQUERIDAS.

Los productos solicitados deberán de ser entregados, conforme la descripción solicitadas, las cantidades serán enunciativas más no limitativas ya que las mismas podrán variar conforme a las necesidades del sistema DIF Zapopan.

No	Descripción	Cantidad	Unidad de medida	Marca y Modelo
1	Equipo de cómputo de escritorio Lenovo ThinkCentre M70s Gen 3 Características Equipo de cómputo de escritorio con procesador de 12va generación (i7-12700) de 12 núcleos con frecuencia base de 2.1 GHz, frecuencia turbo máxima entre 4.8 GHz y 4.9 GHz, caché L3 de 25MB, Memoria RAM de 16GB 3200 MHz DDR4-RAM, 4 DIMM y 128GB máximo, almacenamiento SSD 512GB, puerto Ethernet 10/100/1000, con interfaz RJ-45 integrada, Wi-Fi con soporte IEEE 802.11 b/g/n/ac, Bluetooth 5.1, tarjeta gráfica integrada, 9 puertos USB (4 x USB 3.2, 4 x USB 2.0, 1 x USB-C 3.2), 1 conector combo jack 3.5 mm auriculares/micrófono, 1 puerto HDMI, 2 DisplayPort, Teclado en español latinoamericano, mouse USB 2 botones y scroll. Monitor Lenovo ThinkVision E24-29 LED FHD de 23.8", resolución 1920 x 1080 px, sistema operativo Windows 11 Pro en español 64 Bits OEM, Garantía de 3 años en partes, mano de obra y en sitio. Garantía 3 años en partes, mano de obra y en sitio. Link https://psref.lenovo.com/Product/ThinkCentre/ThinkCentre_M70s_Gen_3	228	PZA	Lenovo ThinkCentre M70s Gen 3
2	Laptop Lenovo ThinkPad L14 Gen 4 Características Laptop con procesador de última generación (Intel Core i5-1335U) de 10 núcleos con frecuencia base de 1.3 GHz, frecuencia turbo máxima 4.6 GHz, caché L3 12MB, almacenamiento SSD de 512GB, memoria RAM de 16GB DDR4 3200 MHz DDR4-SDRAM, 2 SO-DIMM	12	PZA	Lenovo ThinkPad L14 Gen 4

COMERCIALIZADORA GREEN TECH, SA DE CV RFC: COT-L50703-MT1
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	y 64GB memoria interna máxima, pantalla antirreflejante, FHD 14" 1920 x 1080 px, tarjeta de video integrada, teclado español latinoamericano, WiFi con soporte IEEE b/g/n/ac/ax, bluetooth 5.3, batería de polímero de litio con capacidad de 57 Wh, puerto ethernet 10/100/1000, con interfaz RJ-45 integrada, 4 puertos USB (3 USB 3.2, 1 Thunderbolt/USB 4), conector para bocinas o audífonos y micrófono integrado, 1 puerto HDMI, sistema operativo Windows 11 Pro en español 64 Bits OEM, Garantía de 3 años en partes, mano de obra y en sitio. Garantía 3 años en partes, mano de obra y en sitio. Link https://psref.lenovo.com/Product/ThinkPad/ThinkPad_L_14_Gen_4_Intel			000 002
3	Laptop Lenovo ThinkBook 14 G4 IAP Características Laptop con procesador Intel Core i7-1255U de 10 núcleos con frecuencia base de 1.7 GHz, frecuencia turbo máxima 4.7 GHz, caché L3 12MB, almacenamiento SSD de 512GB, memoria RAM de 16GB DDR4 3200 MHz DDR4-SDRAM, pantalla antirreflejante, FHD 14" 1920 x 1080 px, tarjeta de video integrada, teclado español latinoamericano, WiFi con soporte IEEE b/g/n/ac/ax, bluetooth 5.1, batería de polímero de litio con capacidad de 45 Wh, puerto ethernet 10/100/1000, con interfaz RJ-45 integrada, 4 puertos USB (3 USB 3.2, 1 Thunderbolt/USB 4), conector para bocinas o audífonos y micrófono integrado, 1 puerto HDMI, sistema operativo Windows 11 Pro en español 64 Bits OEM, Garantía de 1 año. Link https://psref.lenovo.com/Product/ThinkPad/ThinkPad_L_14_Gen_4_Intel	11	PZA	Lenovo ThinkBook 14 G4 IAP

GARANTÍA: 3 años en partes, mano de obra y en sitio, para la partida 1 Y 2, 1 año para la partida 3.

TIEMPO DE ENTREGA: en un periodo no mayor a 15 quince días hábiles después de la notificación del fallo.

LUGAR DE ENTREGA.

En el almacén general, ubicado en AV. Laureles No. 1151, Colonia Estatuto Juridico Fovissste, Zapopan, Jalisco, C.P. 45149 respetando las especificaciones de este anexo No. 1, en un horario de 09:00 a 14:00 hrs., de lunes a viernes.

Para la entrega de los bienes, el proveedor adjudicado deberá avisar con un día hábil de anticipación a la entrega al tel. 33-38-36-34-44 Ext. 3101 con la finalidad de que la mercancía sea validada y recibida por el titular del área requirente, o quien en su momento él designe.

ATENTAMENTE


RICARDO FERNÁNDEZ BECERRA
 REPRESENTANTE LEGAL DE

COMERCIALIZADORA GREEN TECH S.A. DE C.V.

COMERCIALIZADORA GREEN TECH, SA DE CV RFC: CGT-150703-MT1
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Ficha técnica
Traducción al español

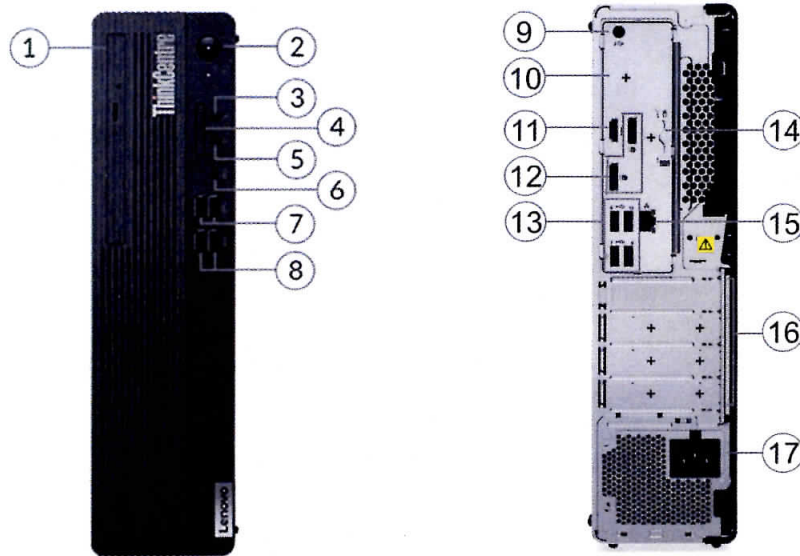


Partida 1
Cantidad 228

Equipo de cómputo de escritorio Lenovo ThinkCentre M70s Gen 3

Características	Equipo de cómputo de escritorio con procesador de 12va generación (i7-12700) de 12 núcleos con frecuencia base de 2.1 GHz, frecuencia turbo máxima entre 4.8 GHz y 4.9 GHz, caché L3 de 25MB, Memoria RAM de 16GB 3200 MHz DDR4-RAM, 4 DIMM y 128GB máximo, almacenamiento SSD 512GB, puerto Ethernet 10/100/1000, con interfaz RJ-45 integrada, Wi-Fi con soporte IEEE 802.11 b/g/n/ac, Bluetooth 5.1, tarjeta gráfica integrada, 9 puertos USB (4 x USB 3.2, 4 x USB 2.0, 1 x USB-C 3.2), 1 conector combo jack 3.5 mm auriculares/micrófono, 1 puerto HDMI, 2 DisplayPort, Teclado en español latinoamericano, mouse USB 2 botones y scroll. Monitor Lenovo ThinkVision E24-29 LED FHD de 23.8", resolución 1920 x 1080 px, sistema operativo Windows 11 Pro en español 64 Bits OEM, Garantía de 3 años en partes, mano de obra y en sitio.
Garantía	3 años en partes, mano de obra y en sitio.
Link	https://psref.lenovo.com/Product/ThinkCentre/ThinkCentre_M70s_Gen_3

OVERVIEW



1. Optical drive *	10. Flex IO *
2. Power button	11. HDMI 2.1 TMDS
3. Microphone (3.5mm)	12. 2x DisplayPort 1.4
4. Card reader *	13. 4x USB 2.0
5. Headphone / microphone combo jack (3.5mm)	14. 2x PS/2 ports (keyboard / mouse) *
6. USB-C 3.2 Gen 1	15. Ethernet (RJ-45)
7. 2x USB 3.2 Gen 1	16. Optional ports on expansion cards *
8. 2x USB 3.2 Gen 2	17. Power connector
9. Line-out (3.5mm)	

Notes:

- Items with * are only available on selected models
- More ports are available through the optional expansion cards (not shown on the sample product above)

ThinkCentre M70s Gen 3

PERFORMANCE

Processor

Processor Family

Intel® Pentium® or 12th Generation Intel Core™ i3 / i5 / i7 / i9 Processor

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
Pentium Gold G7400	2	4	3.7GHz	-	6MB	Intel UHD Graphics 710
Core i3-12100	4 (4 P-core + 0 E-core)	8	P-core 3.3GHz	P-core 4.3GHz ^[1]	12MB	Intel UHD Graphics 730
Core i3-12300	4 (4 P-core + 0 E-core)	8	P-core 3.5GHz	P-core 4.4GHz ^[2]	12MB	Intel UHD Graphics 730
Core i5-12400	6 (6 P-core + 0 E-core)	12	P-core 2.5GHz	P-core 4.4GHz ^[3]	18MB	Intel UHD Graphics 730
Core i5-12400F	6 (6 P-core + 0 E-core)	12	P-core 2.5GHz	P-core 4.4GHz ^[4]	18MB	-
Core i5-12500	6 (6 P-core + 0 E-core)	12	P-core 3.0GHz	P-core 4.6GHz ^[5]	18MB	Intel UHD Graphics 770
Core i5-12600	6 (6 P-core + 0 E-core)	12	P-core 3.3GHz	P-core 4.8GHz ^[6]	18MB	Intel UHD Graphics 770
Core i7-12700	12 (8 P-core + 4 E-core)	20	P-core 2.1GHz / E-core 1.6GHz	Max Turbo up to 4.9GHz / P-core 4.8GHz / E-core 3.6GHz ^[7]	25MB	Intel UHD Graphics 770
Core i7-12700F	12 (8 P-core + 4 E-core)	20	P-core 2.1GHz / E-core 1.6GHz	Max Turbo up to 4.9GHz / P-core 4.8GHz / E-core 3.6GHz ^[8]	25MB	-
Core i9-12900	16 (8 P-core + 8 E-core)	24	P-core 2.4GHz / E-core 1.8GHz	Max Turbo up to 5.1GHz / P-core 5.0GHz / E-core 3.8GHz ^[9]	30MB	Intel UHD Graphics 770
Core i9-12900F	16 (8 P-core + 8 E-core)	24	P-core 2.4GHz / E-core 1.8GHz	Max Turbo up to 5.1GHz / P-core 5.0GHz / E-core 3.8GHz ^[10]	30MB	-

Notes:

[1], [2], [3], [4], [5], [6], [7], [8], [9], [10] Intel Max Turbo frequency will vary depending on application workload and the hardware and software configurations, see <http://www.intel.com/technology/turboboost/> for more information.

Operating System

Operating System**

- Ubuntu Linux^[1]
- Windows® 10 IoT Enterprise LTSC 2021
- Windows 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

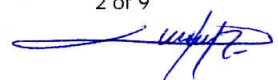
Notes:

[1] Some features may not be supported on the system with Linux preload, including but not limited to Intel RST RAID, Human Presence Detection, etc.

Graphics

Graphics***[1]

Graphics	Type	Memory	Connector	Max Resolution	Key Features
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ThinkCentre M70s Gen 3

Intel UHD graphics 710	Integrated	Shared	2x DP 1.4 HBR2, 1x HDMI [®] 2.1 TMDS, 1x Flex IO (VGA / DP 1.2 / HDMI 2.1 TMDS / USB-C [®])	4096x2304@60Hz(DP), 4096x2160@60Hz[HDMI / Flex IO(HDMI) / Flex IO(DP)], 3840x2160@60Hz[Flex IO(USB-C)], 2048x1536@50Hz[Flex IO(VGA)]	DirectX [®] 12
Intel UHD graphics 730	Integrated	Shared	2x DP 1.4 HBR2, 1x HDMI 2.1 TMDS, 1x Flex IO (VGA / DP 1.2 / HDMI 2.1 TMDS / USB-C)	4096x2304@60Hz(DP), 4096x2160@60Hz[HDMI / Flex IO(HDMI) / Flex IO(DP)], 3840x2160@60Hz[Flex IO(USB-C)], 2048x1536@50Hz[Flex IO(VGA)]	DirectX 12
Intel UHD graphics 770	Integrated	Shared	2x DP 1.4 HBR2, 1x HDMI 2.1 TMDS, 1x Flex IO (VGA / DP 1.2 / HDMI 2.1 TMDS / USB-C)	4096x2304@60Hz(DP), 4096x2160@60Hz[HDMI / Flex IO(HDMI) / Flex IO(DP)], 3840x2160@60Hz[Flex IO(USB-C)], 2048x1536@50Hz[Flex IO(VGA)]	DirectX 12
Intel Iris [®] Xe MAX 100	Discrete	2GB LPDDR4X	2x DP 1.4	3840x2160@60Hz(DP)	DirectX 12, OpenGL 4.6

Notes:

[1] The information of integrated graphics are not applicable for the models with processor which has no integrated graphics inside (for the details, please refer to processor section).

Monitor Support

Monitor Support^[1]

Supports up to 4 independent displays via onboard ports (2x DP, 1x HDMI, and 1x optional Flex IO), more displays support via discrete graphics

Notes:

[1] Onboard video ports are only available for the models with integrated graphics.

Chipset

Chipset

Intel Q670 chipset

Memory

Max Memory^[1]

Up to 128GB DDR4-3200

Memory Slots

Four DDR4 DIMM slots, dual-channel capable

Memory Type

DDR4-3200

Notes:

[1] The max memory is based on the test results with current Lenovo[®] memory offerings.

Storage

Storage Support^{[1][2]}

Up to three drives, 1x 2.5"/3.5" HDD + 1x 2.5" HDD + 1x M.2 SSD

- 2.5" HDD up to 1TB each
- 3.5" HDD up to 2TB
- M.2 SSD up to 2TB

Storage Type^{***}

Disk Type	Interface	RPM	Security
2.5" SATA HDD	SATA 6Gb/s	7.2K	-
3.5" SATA HDD	SATA 6Gb/s	7.2K	-
M.2 2242 SSD	PCIe [®] NVMe [®] , PCIe 3.0 x4	-	-
M.2 2280 SSD	PCIe NVMe, PCIe 3.0 x4	-	Opal

ThinkCentre M70s Gen 3

M.2 2280 SSD	PCIe NVMe, PCIe 4.0 x4 Performance	-	Opal 2.0
M.2 2280 SSD	PCIe NVMe, PCIe 4.0 x4 Value	-	Opal 2.0

RAID

RAID 0/1 support for HDDs (RAID preset only available via special bid models)

Notes:

[1] The max capacity of each disk type is based on the test results with current Lenovo storage offerings.

[2] The max capacity of SSD/HDD is based on the test results with current Lenovo SSD/HDD offerings.

Removable Storage

Optical**

- DVD-ROM, SATA connector, slim (9.0mm)
- DVD burner (DVD±RW), SATA connector, slim (9.0mm)
- None

Card Reader

- 3-in-1 card reader (SD, SDHC, SDXC)
- No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC897Q-CG codec

Speakers

Single speaker, 1W x1

Power Supply

Power Supply**

Power	Type	Efficiency	Key Features
180W	Fixed	85%	100-240V, 50-60Hz
260W	Fixed	90%	100-240V, 50-60Hz
310W	Fixed	92%	100-240V, 50-60Hz
380W	Fixed	92%	100-240V, 50-60Hz

DESIGN

Input Device

Keyboard**

- Lenovo Calliope Keyboard (USB connector), black
- Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
- Lenovo Traditional Keyboard (USB connector), black
- No keyboard

Mouse**

- Lenovo Calliope Mouse (USB connector), black
- Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
- Lenovo Mouse (PS/2 connector), black (only available via special bid)
- Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black (EOL on Jan, 2023)
- No mouse

Mechanical

Form Factor

SFF (8.2L)

Dimensions (WxDxH)^[1]

92.5 x 297.7 x 339.5 mm (3.6 x 11.7 x 13.4 inches)

Weight^[2]

ThinkCentre M70s Gen 3

Around 5.3 kg (11.7 lbs)

Case Color

Black

Bays^[3]

- 1x 2.5" disk bay
- 1x 3.5" disk bay
- 1x slim ODD bay

Expansion Slots

- One PCIe 4.0 x16, low-profile, length ≤ 155mm, height ≤ 70mm
- Two PCIe 3.0 x1, low-profile, length ≤ 155mm, height ≤ 70mm
- Two M.2 slots (one for WLAN, one for SSD)

EOU

Toolless cover, disk, optical, extension card assembly / removal

Stand

- Vertical stand
- No stand

Others

- (Optional) Dust filter
- (Optional) Smart Cable (USB-A to USB-C)
- Supports Smart Power On

Notes:

[1] The system dimensions may vary depending on configurations.

[2] The system weight is approximate and based on results in Lenovo lab, which varies depending on the source of component, variance of the distribution of each component, and manufacturing process. It may not be the exact weight for each specific model.

[3] 2.5" HDD tray is optional, or comes with 2.5 HDD. 3.5" bay supports 2.5" / 3.5" HDD, 3.5" to 2.5 converter comes with 2nd 2.5" HDD.

CONNECTIVITY

Network

Onboard Ethernet

Gigabit Ethernet, Intel Ethernet Connection I219-LM, 1x RJ-45, supports Wake-on-LAN

Optional Ethernet^{***}

- Gigabit Ethernet, Bitland BN8E88, 1x RJ-45, PCIe x1
- Gigabit Ethernet, Bitland RTL8168H, 1x RJ-45, PCIe x1
- 2.5 Gigabit Ethernet, Realtek RTL8125BGS, 1x RJ-45, PCIe x1
- No optional Ethernet

WLAN + Bluetooth^{**}

- Intel Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card^[1]
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, Intel vPro® technology support, M.2 Card^[2]
- Realtek RTL8822CE, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
- Intel Wireless-AC 9560, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Realtek Wi-Fi 6 RTL8852BE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card^[3]
- No WLAN and Bluetooth

Notes:

[1], [2], [3] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

Ports^[1]

Front Ports

- 1x USB-C 3.2 Gen 1 (15W charging)
- 2x USB 3.2 Gen 1
- 2x USB 3.2 Gen 2
- 1x headphone / microphone combo jack (3.5mm)

ThinkCentre M70s Gen 3

- 1x microphone (3.5mm)

Optional Front Ports

1x card reader

Rear Ports^[2]

- 4x USB 2.0
- 1x HDMI 2.1 TMDS
- 2x DisplayPort™ 1.4a (HBR2, DSC)
- 1x Ethernet (RJ-45)
- 1x line-out (3.5mm)

Optional Rear Ports^{***}

- 1x USB-C 3.2 Gen 1 with DisplayPort function and 5V@3A charging (Flex IO)
- 1x HDMI 2.1 TMDS (Flex IO)
- 1x DP 1.2 (Flex IO)
- 1x VGA (Flex IO)
- 2x USB 3.2 Gen 1 (via 2-port USB expansion card, PCIe x1)
- 1x parallel
- 1x serial
- 1x 2nd serial
- 4x serial (via 4-port serial expansion card, PCIe x1)
- 2x PS/2

Notes:

[1] The transfer speed of following ports will vary and, depending on many factors, such as the processing speed of the host device, file attributes and other factors related to system configuration and your operating environment, will be slower than theoretical speed.

USB 2.0: 480 Mbit/s;

USB 3.2 Gen 1 (SuperSpeed USB 5Gbps, formerly USB 3.0 / USB 3.1 Gen 1): 5 Gbit/s;

USB 3.2 Gen 2 (SuperSpeed USB 10Gbps, formerly USB 3.1 Gen 2): 10 Gbit/s;

USB4[®] 20Gbps / USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;

USB4 40Gbps (USB 40Gbps): 40 Gbit/s;

Thunderbolt™ 3/4: 40 Gbit/s.

[2] For video ports on discrete graphics, please see graphics section.

Monitor Cable

Monitor Cable^{***}

- HDMI to HDMI cable (1.5m)
- HDMI to VGA dongle
- DP to VGA dongle
- DP to dual DP dongle
- DP to DVI-D dongle
- DP to HDMI dongle
- No monitor cable

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified

Physical Locks

- (Optional) E-lock
- (Optional) Smart Cable Clip
- Kensington[®] Security Slot™, 3 x 7 mm
- Padlock Loop

Chassis Intrusion Switch

- Chassis intrusion switch
- No chassis intrusion switch

Fingerprint Reader

- Touch style fingerprint reader on mouse (EOL on Jan, 2023)
- No fingerprint reader

BIOS Security

- Administrator password
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Self-healing BIOS (Level 2)
- Smart USB protection (allows keyboard / mouse only, blocks all storage devices)
- Individual USB port disablement

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MANAGEABILITY**System Management****System Management****

- Intel vPro Enterprise^[1]
- Intel vPro Essentials^[2]
- Non-vPro

Notes:

[1], [2] Intel vPro offers a superset of DASH's defined capabilities.

SERVICE**Warranty^[1]****Base Warranty****

- 1-year courier or carry-in service
- 1-year limited onsite service
- 3-year limited onsite service
- No base warranty

Notes:

[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to <https://smartfind.lenovo.com/>. To learn more details of warranty policy, please access <https://pcsupport.lenovo.com/warranty>.

ENVIRONMENTAL**Operating Environment****Temperature**

- Operating: 5°C (41°F) to 35°C (95°F)
- Storage: -40°C (-40°F) to 60°C (140°F)

Humidity

- Operating: 20% to 80%
- Storage: 10% to 90%

Altitude

- Operating: 0 m (0 ft) to 3048 m (10,000 ft)
- Storage: 0 m (0 ft) to 12192 m (40,000 ft)

CERTIFICATIONS**Green Certifications^[1]****Green Certifications**

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered^[2]
- (Optional) EPEAT Silver Registered^[3]



- ErP Lot 3
- RoHS compliant
- TCO Certified 9.0

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Notes:

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

[2], [3] EPEAT is registered where applicable, please see <https://www.epeat.net> for registration status by country.

Other Certifications**Other Certifications**

- (Optional) TÜV Rheinland® Low Noise
- (Optional) TÜV Rheinland Ultra Low Noise

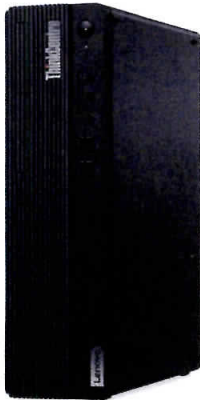
Mil-Spec Test

MIL-STD-810H military test passed (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation, Contamination by Fluids, Salt Fog)

- Feature with ** means that only one offering listed under the feature is configured on selected models.
- Feature with *** means that one or more offerings listed under the feature could be configured on selected models.
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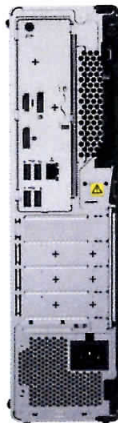
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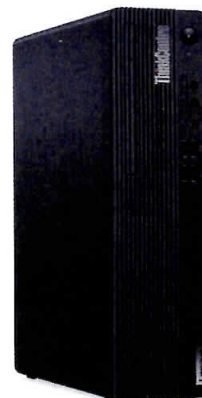
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Signature

ThinkVision E24-29 63DOMAR3LA

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Product Specifications
Reference

PERFORMANCE

Display Size
23.8"

View Area
527.0x296.5 mm

Panel
Vertical Alignment

Backlight
WLED

Aspect Ratio
16:9

Resolution
1920x1080

Pixel Pitch
0.275x0.275 mm

Dot / Pixel Per Inch
93 dpi

View Angle (H / V)
178° / 178°

Response Time
4ms (Extreme mode) / 6ms (Typical mode)

Color Support
16.7 Million

Refresh Rate
60Hz

Brightness
250 cd/m²

Contrast Ratio
3000:1

Color Gamut
72% NTSC

Screen Surface Treatment
Anti-glare

Curvature
None

Camera
None

Microphone
None

Speakers
1.5Wx2

Power Consumption (Typical / Maximum)
25W / 33W

Power Adapter
Integrated

Touchscreen
None

Smart System
None

DESIGN

Stand
Tilt, Swivel, Pivot, Height Adjust Stand

Case Color
Raven Black

Side Bezel Width
2.3 mm

Dimensions with Stand (HxWxD)
462.1x540.4x185.7 mm / 18.19x21.28x7.31 inches

Weight (Including Stand)
4.5 kg / 9.9 lbs.

Mounting
Supports VESA mount 100mm

ThinkCentre® M Series Support
Tiny Support

CONNECTIVITY

USB Port
None

Video Connector
1x HDMI* 1.4, 1x DP 1.2, 1x VGA

Network Connectivity
None

SERVICE

Base Warranty
3-year

CERTIFICATIONS

Environmental Certification
ENERGY STAR* Certified, TCO 8.0, TCO Edge 2.0, EPEAT™ Gold, RoHS

Ergonomic Certification
TÜV Rheinland* Low Blue Light, TÜV Rheinland Eye Comfort

Sync Technology
None

SOFTWARE

Operating System
Support Windows* 7, Windows 10

ACCESSORIES

Video Cables
HDMI* cable

MODEL

Announce Date : 2022-07-03
EAN : 0196800962508 / 196800962508 / None
UPC : 0196800962508 / 196800962508 / None
JAN



Product image is a sample, it may not match the real color of this model

Premium Care - Advanced Support from Real People. Real Fast.



REAL PERSON

Choose how you want to reach us - through the phone, chat or email - our expert technicians will take care of you.



REAL FAST

Highly trained technicians will provide you real-time solutions, whatever the issue, on your first contact. If needed, our team will schedule an onsite visit for the next business day.



HASSLE FREE

'Getting started' and 'how-to' assistance for hardware and software. Easy solutions that are simple to reach - that's how Premium Care delivers you the ideal support experience.



PC HEALTH CHECK

Free annual PC Health Check that allows our experts to spot issues before you do so they can resolve them quickly and help you avoid PC problems.

Accidental Damage Protection - Protection of your PC from the unexpected.

Experience shows that a significant portion of devices may be damaged (and not covered under warranty) in the first three years. Lenovo's Accidental Damage Protection service covers accidents beyond the system warranty such as drops, spills, bumps and even electrical surges. Make sure your new device has maximum protection, avoid unplanned costs and get peace of mind.

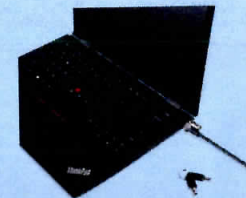
Base Warranty – Included with the systems you purchase, default 1- or 3-year coverage window.

Warranty Extensions & Upgrades – Service and protection that's right for your circumstances.

- Pick Up & Return Courier
- Technician Installed Customer
- Onsite Support
- Replaceable Unit Service
- International Warranty Upgrade

Lenovo may not offer the products, services or features discussed in this document in all regions. Lenovo may withdraw an offering at any time. Consult your local representative for information on offerings available in your area. Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors. Lenovo provides this publication "as is" without warranty of any kind, either express or implied, including the implied warranties of merchantability or fitness for a particular purpose.

Recommended Accessories



Kensington MicroSaver 2.0 Cable Lock from Lenovo

4XEON80914

Protect your device. Lenovo offers the latest standard in device security - the MicroSaver 2.0 Cable Lock From Lenovo. Engineered to be the smallest, strongest lock for laptops and other devices, the MicroSaver 2.0 re...



ThinkCentre Tiny Sandwich Kit II

4XH0N04098

The ThinkCentre Tiny Sandwich Kit II is a mechanical bracket which can mount your ThinkCentre Tiny PC between monitor and ThinkCentre Extend Arm. The Tiny Sandwich kit enables more desktop and floor space while provid...

For a full list of accessories and services, please visit:
<https://smartfind.Lenovo.com>

Lenovo

PSREF
Product Specifications
Reference

Ficha técnica
Traducción al español

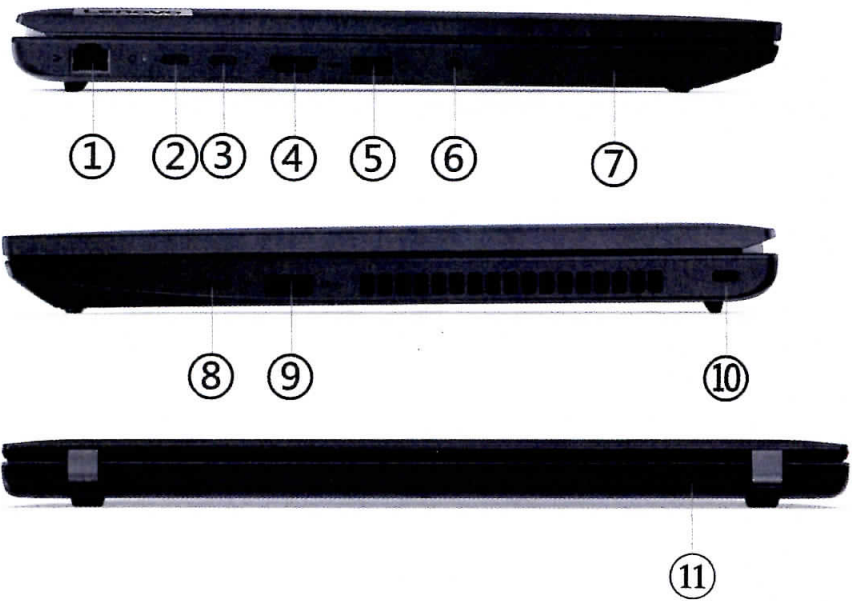


Partida 2
Cantidad 12
Laptop Lenovo ThinkPad L14 Gen 4

Características	Laptop con procesador de última generación (Intel Core i5-1335U) de 10 núcleos con frecuencia base de 1.3 GHz, frecuencia turbo máxima 4.6 GHz, caché L3 12MB, almacenamiento SSD de 512GB, memoria RAM de 16GB DDR4 3200 MHz DDR4-SDRAM, 2 SO-DIMM y 64GB memoria interna máxima, pantalla antirreflejante, FHD 14" 1920 x 1080 px, tarjeta de video integrada, teclado español latinoamericano, WiFi con soporte IEEE b/g/n/ac/ax, bluetooth 5.3, batería de polímero de litio con capacidad de 57 Wh, puerto ethernet 10/100/1000, con interfaz RJ-45 integrada, 4 puertos USB (3 USB 3.2, 1 Thunderbolt/USB 4), conector para bocinas o audífonos y micrófono integrado, 1 puerto HDMI, sistema operativo Windows 11 Pro en español 64 Bits OEM, Garantía de 3 años en partes, mano de obra y en sitio.
Garantía	3 años en partes, mano de obra y en sitio.
Link	https://psref.lenovo.com/Product/ThinkPad/ThinkPad_L14_Gen_4_Intel

OVERVIEW

000 016



1. Ethernet (RJ-45)	7. Smart card reader *
2. USB-C 3.2 Gen 2	8. microSD card reader
3. Thunderbolt 4	9. USB 3.2 Gen 1
4. HDMI	10. Kensington Nano Security Slot
5. USB 3.2 Gen 1 (Always On)	11. Nano-SIM card slot *
6. Headphone / microphone combo jack (3.5mm)	

Notes:

- Items with * are only available on selected models

ThinkPad L14 Gen 4 (Intel)

PERFORMANCE

000 017

Processor

Processor Family

Intel® U-series or 13th Generation Intel U or P Series Core™ i3 / i5 / i7 Processor

Processor**[1]

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
U300	5 (1 P-core + 4 E-core)	6	P-core 1.2GHz / E-core 0.9GHz	P-core 4.4GHz / E-core 3.3GHz	8MB	Intel UHD Graphics
Core i3-1315U	6 (2 P-core + 4 E-core)	8	P-core 1.2GHz / E-core 0.9GHz	P-core 4.5GHz / E-core 3.3GHz	10MB	Intel UHD Graphics
Core i5-1335U	10 (2 P-core + 8 E-core)	12	P-core 1.3GHz / E-core 0.9GHz	P-core 4.6GHz / E-core 3.4GHz	12MB	Intel Iris® Xe Graphics ^[2]
Core i5-1340P	12 (4 P-core + 8 E-core)	16	P-core 1.9GHz / E-core 1.4GHz	P-core 4.6GHz / E-core 3.4GHz	12MB	Intel Iris Xe Graphics ^[3]
Core i5-1345U	10 (2 P-core + 8 E-core)	12	P-core 1.6GHz / E-core 1.2GHz	P-core 4.7GHz / E-core 3.5GHz	12MB	Intel Iris Xe Graphics ^[4]
Core i5-1350P	12 (4 P-core + 8 E-core)	16	P-core 1.9GHz / E-core 1.4GHz	P-core 4.7GHz / E-core 3.5GHz	12MB	Intel Iris Xe Graphics ^[5]
Core i7-1355U	10 (2 P-core + 8 E-core)	12	P-core 1.7GHz / E-core 1.2GHz	P-core 5.0GHz / E-core 3.7GHz	12MB	Intel Iris Xe Graphics ^[6]
Core i7-1360P	12 (4 P-core + 8 E-core)	16	P-core 2.2GHz / E-core 1.6GHz	P-core 5.0GHz / E-core 3.7GHz	18MB	Intel Iris Xe Graphics ^[7]
Core i7-1365U	10 (2 P-core + 8 E-core)	12	P-core 1.8GHz / E-core 1.3GHz	P-core 5.2GHz / E-core 3.9GHz	12MB	Intel Iris Xe Graphics ^[8]
Core i7-1370P	14 (6 P-core + 8 E-core)	20	P-core 1.9GHz / E-core 1.4GHz	P-core 5.2GHz / E-core 3.9GHz	24MB	Intel Iris Xe Graphics ^[9]

Notes:

[1] Intel P series processors are for special bid only.

[2], [3], [4], [5], [6], [7], [8], [9] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Operating System

Operating System**

- Linux^[1]
- Ubuntu Linux^[2]
- Windows® 11 DG Windows 10 Pro 64^[3]
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:

[1], [2] Some features may not be supported on the system with Linux preload, including but not limited to Intel RST RAID, MIPI computer vision camera, WWAN, Human Presence Detection, etc.

[3] Windows 11 DG Windows 10 Pro 64 is for special bid only.

Graphics

Graphics**

Graphics	Type	Memory	TGP	Key Features
Intel UHD Graphics	Integrated	Shared	Share CPU TDP	DirectX® 12.1
Intel Iris Xe Graphics ^[1]	Integrated	Shared	Share CPU TDP	DirectX 12.1



ThinkPad L14 Gen 4 (Intel)

NVIDIA® GeForce MX550 ^[2]	Discrete	2GB GDDR6	-	DirectX 12
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000 018

Notes:

[1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

[2] NVIDIA GeForce MX550 is NOT available in EMEA.

Monitor Support

Monitor Support

Supports up to 4 independent displays (native display and 3 external monitors via HDMI[®], USB-C[®] and Thunderbolt™)

- HDMI supports up to 3840x2160@60Hz
- USB-C supports up to 5120x3200@60Hz
- Thunderbolt supports up to 5120x3200@60Hz

Chipset

Chipset

Intel SoC (System on Chip) platform

Memory

Max Memory^[1]

Up to 64GB DDR4-3200

Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

Memory Type

DDR4-3200

Notes:

[1] The max memory is based on the test results with current Lenovo® memory offerings.

Storage

Storage Support^[1]

One drive, up to 2TB M.2 2242 SSD

Storage Slot

One M.2 2242 PCIe[®] 4.0 x4 slot

Storage Type

Disk Type	Interface	Offering	Security
M.2 2242 SSD	PCIe NVMe [®] , PCIe 4.0 x4	256GB / 512GB / 1TB / 2TB	Opal 2.0

Notes:

[1] The storage capacity supported is based on the test results with current Lenovo storage offerings.

Removable Storage

Card Reader

microSD card reader

Multi-Media

Audio Chip

- vPro[®] models: High Definition (HD) Audio, Senary SN6147 codec
- Non-vPro models: High Definition (HD) Audio, Realtek[®] ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby[®] Audio™

Microphone

Dual-microphone array, far-field, Dolby Voice

Camera**

ThinkPad L14 Gen 4 (Intel)

- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus
- HD 720p, with privacy shutter, fixed focus

000 019

Battery

Battery**

- Integrated Li-Polymer 46.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W or 100W AC adapter
- Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W or 100W AC adapter
- Integrated Li-Polymer 63Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 100W AC adapter

Battery Life^[1]

Configuration 1 (max battery life)

MobileMark® 25: up to 14.38 hr @250nits

JEITA 2.0: up to 27.39 hr @150nits

Local video playback: up to 28.77 hr @150nits

Alternate configuration 2

MobileMark 25: up to 9.35 hr @250nits

JEITA 2.0: up to 16.86 hr @150nits

Local video playback: up to 16.67 hr @150nits

Alternate configuration 3

MobileMark 25: up to 7.6 hr @250nits

JEITA 2.0: up to 15.38 hr @150nits

Local video playback: up to 30.01 hr @150nits

Notes:

[1] Configuration 1 (max battery life): FHD (non-touch), Intel i3-1315U, 8GB DDR4, Win 11, 63Wh battery, best power efficiency power mode

Alternate configuration 2: FHD (non-touch), Intel i5-1350P, 16GB DDR4, Win 11, 57Wh battery, best power efficiency power mode

Alternate configuration 3: FHD (touch), Intel i7-1360P, 64GB DDR4, NVIDIA Geforce MX550, Win 11, 63Wh battery, best power efficiency power mode

All battery life claims are approximate maximum and based on results using [MobileMark 25](#), JEITA 2.0, continuous 1080p local video playback (using default Media Player in Fullscreen mode with 150nits brightness and default volume level), or Google Power Load Test (PLT) battery-life benchmark tests.

Actual battery life will vary depending on many factors such as product configuration, software, wireless functionality, power management settings, and screen brightness.

The maximum capacity of the battery will decrease with time, ambient temperature and use.

Refer to [Microsoft* link](#) for more information about the Windows Performance power slider.

Power Adapter

Power Adapter**^[1]

- 45W USB-C (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 45W USB-C (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C slim (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 100W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter^[2]

Notes:

[1] AC adapter offerings depend on the country.

[2] No power adapter is for special bid only.

DESIGN

Display

Display**

ThinkPad L14 Gen 4 (Intel)

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Refresh Rate	Viewing Angle (L/R/U/D)	Key Features
14"	HD (1366x768)	None	TN	220nits	Anti-glare	16:9	500:1	45% NTSC	60Hz	45°/45°/15°/35°	-
14"	FHD (1920x1080)	None	IPS	250nits	Anti-glare	16:9	800:1	45% NTSC	60Hz	85°/85°/85°/85°	-
14"	FHD (1920x1080)	Multi-touch	IPS	300nits	Anti-glare	16:9	1000:1	45% NTSC	60Hz	85°/85°/85°/85°	-
14"	FHD (1920x1080)	None	IPS ^[1]	400nits	Anti-glare	16:9	1500:1	72% NTSC	60Hz	85°/85°/85°/85°	Low power

Touchscreen

- On-cell multi-touch, supports 10-point touch
- Non-touch

Notes:

[1] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

Input Device**Keyboard**

6-row, spill-resistant, multimedia Fn keys with Unified Communications controls

Keyboard Backlight

- LED backlight
- Non-backlight

UltraNav™

TrackPoint® pointing device and Mylar® surface multi-touch touchpad, 56 x 115 mm (2.24 x 4.53 inches)

Mechanical**Dimensions (WxDxH)^[1]**

Models	Dimensions
Aluminium (top), PC-CF (bottom) models	325.4 x 217 x 18.73 mm (12.81 x 8.54 x 0.74 inches)
Aluminium (top), PC-ABS (bottom) models	325.4 x 217 x 18.93 mm (12.81 x 8.54 x 0.75 inches)
PC-ABS (top), PC-CF (bottom) models	325.4 x 217 x 19.63 mm (12.81 x 8.54 x 0.77 inches)
PC-ABS (top), PC-ABS (bottom) models	325.4 x 217 x 19.83 mm (12.81 x 8.54 x 0.78 inches)

Weight^[2]

Starting at 1.4 kg (3.09 lbs)

Case Color

Thunder black

Case Material**

- Aluminium (top), PC-ABS (bottom)
- Aluminium (top), PC-CF (bottom)
- PC-ABS (top), PC-ABS (bottom)
- PC-ABS (top), PC-CF (bottom)

Notes:

[1] The system dimensions may vary depending on configurations.

[2] The system weight is approximate and based on results in Lenovo lab, which varies depending on the source of component, variance of the distribution of each component, and manufacturing process. It may not be the exact weight for each specific model.

CONNECTIVITY**Network****Ethernet****

ThinkPad L14 Gen 4 (Intel)

- Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models), 1x RJ-45, supports Wake-on-LAN

000 021

WLAN + Bluetooth^{**}

- Intel Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2, M.2 Card^[1]
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.3, M.2 Card^[2]
- No WLAN and Bluetooth

WWAN^{**}

- Wireless WAN upgradable to 4G (with antenna ready)
- Quectel EM05-G, 4G LTE CAT4, M.2 card, with embedded eSIM functionality
- Fibocom L860-GL-16, 4G LTE CAT16, M.2 card, with embedded eSIM functionality
- No support

SIM Card

No physical SIM card inbox

NFC

- Near Field Communication
- No support

Notes:

[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

Wi-Fi 6 full features might be limited by country-level restrictions.

[2] Wi-Fi 6E full features might be limited by country-level restrictions.

Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.

6GHz Wi-Fi 6E operation is dependent on the support of the operating system, routers/APs/Gateways that support Wi-Fi 6E, and the regional regulatory certifications & spectrum allocation.

Bluetooth 5.3 operation requires Windows 11. For more information please see [General Bluetooth Support Information on Microsoft](#).

Ports^[1]

Standard Ports

- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort 1.4)
- 1x microSD card reader

Optional Ports^{***}

- 1x Smart card reader
- 1x Nano-SIM card slot (WWAN support models)

Notes:

[1] The transfer speed of following ports will vary and, depending on many factors, such as the processing speed of the host device, file attributes and other factors related to system configuration and your operating environment, will be slower than theoretical speed.

USB 2.0: 480 Mbit/s;

USB 3.2 Gen 1 (SuperSpeed USB 5Gbps, formerly USB 3.0 / USB 3.1 Gen 1): 5 Gbit/s;

USB 3.2 Gen 2 (SuperSpeed USB 10Gbps, formerly USB 3.1 Gen 2): 10 Gbit/s;

USB4 20Gbps / USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;

USB4 40Gbps (USB 40Gbps): 40 Gbit/s;

Thunderbolt 3/4: 40 Gbit/s.

Docking

Docking

Various docking solutions supported via Thunderbolt or USB-C.

For more compatible docking solutions, please visit [Docking for ThinkPad® L14 Gen 4 \(Intel\)](#)

Monitor Cable

Monitor Cable^{***}

ThinkPad L14 Gen 4 (Intel)

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to VGA Adapter
- Lenovo USB-C to DisplayPort Adapter
- No monitor cable

000 022

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified, FIPS 140-2 certified

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Smart Card Reader

- Smart card reader
- No smart card reader

Fingerprint Reader

- Touch style fingerprint reader integrated in power button, match-on-chip
- No fingerprint reader

BIOS Security

- Power-on password
- Supervisor password
- NVMe password
- Self-healing BIOS

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows Hello

MANAGEABILITY

System Management

System Management**

- Intel vPro Enterprise^[1]
- Intel vPro Essentials^[2]
- Non-vPro

Notes:

[1], [2] Intel vPro offers a superset of DASH's defined capabilities.

SERVICE

Warranty^[1]

Base Warranty**

- 1-year courier or carry-in service
- 1-year courier or carry-in with 2-year system board service (Korea only)
- 1-year limited onsite service
- 3-year (1-yr battery) courier or carry-in service
- 3-year (1-yr battery) limited onsite service

Notes:

[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to <https://smartfind.lenovo.com/>. To learn more details of warranty policy, please access <https://pcsupport.lenovo.com/warranty>.

ENVIRONMENTAL

ThinkPad L14 Gen 4 (Intel)

Sustainability

Material

- 30% PCC recycled plastic used in top cover frame material
- 50% PCC recycled plastic used in speaker enclosure
- 90% PCC recycled plastic used in the battery pack
- 90% PCC recycled plastic used in standard adapter
- 45% PCC recycled plastic used in SIM tray
- Low-temperature solder
- 90% recycled and/or sustainable packaging

000 023

Operating Environment

Temperature^[1]

- Operating: 5°C (41°F) to 35°C (95°F)
- Storage and transportation in original shipping package: -20°C (-4°F) to 60°C (140°F)
- Storage without package: 5°C (41°F) to 43°C (109°F)

Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage and transportation: 5% to 95% at wet-bulb temperature 27°C (81°F)

Altitude

Maximum altitude (without pressurization): 3048 m (10,000 ft)

Notes:

[1] When you charge the battery, its temperature must be no lower than 10°C (50°F).

CERTIFICATIONS

Green Certifications^[1]

Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered^[2]
- ErP Lot 26
- ErP Lot 6
- RoHS compliant
- TCO Certified 9.0

Notes:

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

[2] EPEAT is registered where applicable, please see <https://www.epeat.net> for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

- Feature with ** means that only one offering listed under the feature is configured on selected models.
- Feature with *** means that one or more offerings listed under the feature could be configured on selected models.
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ThinkPad L14 Gen 4 (Intel) - November 09 2023



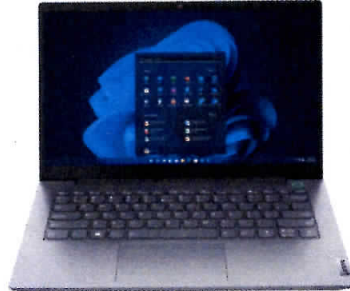
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- The specifications on this page may not be available in all regions, and may be changed or updated without notice. 000 024

ThinkPad L14 Gen 4 (Intel)



Ficha técnica
Traducción al español

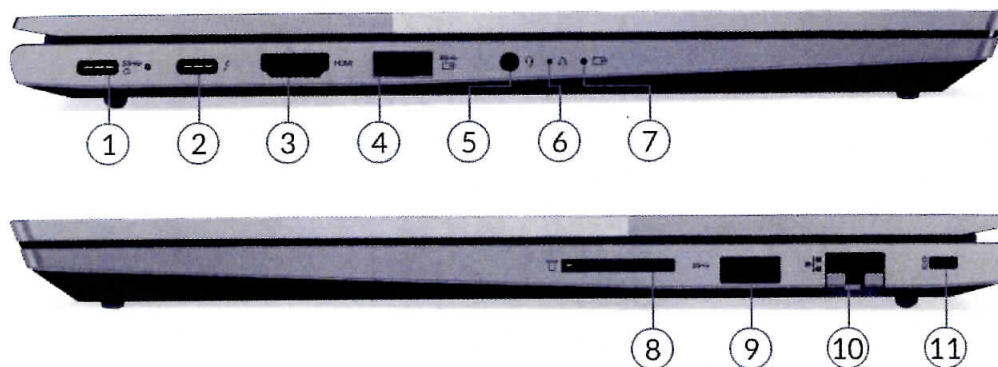


Partida 3
Cantidad 11
Laptop Lenovo ThinkBook 14 G4 IAP

Características	Laptop con procesador Intel Core i7-1255U de 10 núcleos con frecuencia base de 1.7 GHz, frecuencia turbo máxima 4.7 GHz, caché L3 12MB, almacenamiento SSD de 512GB, memoria RAM de 16GB DDR4 3200 MHz DDR4-SDRAM, pantalla antirreflejante, FHD 14" 1920 x 1080 px, tarjeta de video integrada, teclado español latinoamericano, WiFi con soporte IEEE b/g/n/ac/ax, bluetooth 5.1, batería de polímero de litio con capacidad de 45 Wh, puerto ethernet 10/100/1000, con interfaz RJ-45 integrada, 4 puertos USB (3 USB 3.2, 1 Thunderbolt/USB 4), conector para bocinas o audífonos y micrófono integrado, 1 puerto HDMI, sistema operativo Windows 11 Pro en español 64 Bits OEM, Garantía de 1 año.
Garantía	Garantía de 1 año.
Link	https://psref.lenovo.com/Product/ThinkPad/ThinkPad_L14_Gen_4_Intel

OVERVIEW

000 027



1. USB-C 3.2 Gen 2	7. Battery light
2. Thunderbolt 4	8. SD card reader
3. HDMI	9. USB 3.2 Gen 1
4. USB 3.2 Gen 1 (Always On)	10. Ethernet (RJ-45)
5. Headphone / microphone combo jack (3.5mm)	11. Kensington Nano Security Slot
6. NOVO button hole	

ThinkBook 14 G4 IAP

PERFORMANCE

Processor

Processor Family

12th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
Core i3-1215U	6 (2 P-core + 4 E-core)	8	P-core 1.2GHz / E-core 0.9GHz	P-core 4.4GHz / E-core 3.3GHz	10MB	Intel UHD Graphics
Core i3-1220P	10 (2 P-core + 8 E-core)	12	P-core 1.5GHz / E-core 1.1GHz	P-core 4.4GHz / E-core 3.3GHz	12MB	Intel UHD Graphics
Core i5-1235U	10 (2 P-core + 8 E-core)	12	P-core 1.3GHz / E-core 0.9GHz	P-core 4.4GHz / E-core 3.3GHz	12MB	Intel Iris® Xe Graphics ^[1]
Core i5-1240P	12 (4 P-core + 8 E-core)	16	P-core 1.7GHz / E-core 1.2GHz	P-core 4.4GHz / E-core 3.3GHz	12MB	Intel Iris Xe Graphics ^[2]
Core i7-1255U	10 (2 P-core + 8 E-core)	12	P-core 1.7GHz / E-core 1.2GHz	P-core 4.7GHz / E-core 3.5GHz	12MB	Intel Iris Xe Graphics ^[3]
Core i7-1260P	12 (4 P-core + 8 E-core)	16	P-core 2.1GHz / E-core 1.5GHz	P-core 4.7GHz / E-core 3.4GHz	18MB	Intel Iris Xe Graphics ^[4]

Notes:

[1], [2], [3], [4] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Operating System

Operating System**

- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Graphics

Graphics**

Graphics	Type	Memory	TGP	Key Features
Intel UHD Graphics	Integrated	Shared	Share CPU TDP	DirectX® 12.1
Intel Iris Xe Graphics ^[1]	Integrated	Shared	Share CPU TDP	DirectX 12.1
NVIDIA® GeForce MX550	Discrete	2GB GDDR6	-	DirectX 12

Notes:

[1] Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Monitor Support

Monitor Support

Supports up to 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® and Thunderbolt™)

- HDMI supports up to 3840x2160@60Hz
- USB-C supports up to 5120x3200@60Hz
- Thunderbolt supports up to 5120x3200@60Hz

Chipset

Chipset

Intel SoC (System on Chip) platform

ThinkBook 14 G4 IAP

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Memory

Max Memory^[1]

Up to 40GB (8GB soldered + 32GB SO-DIMM) DDR4-3200

Memory Slots

One memory soldered to systemboard, one DDR4 SO-DIMM slot, dual-channel capable

Memory Type

DDR4-3200

Notes:

[1] Maximum memory is only to test technical readiness of notebook. Available memory to sell would vary.

Storage

Storage Support^{[1][2]}

Up to two drives, 2x M.2 SSD

- M.2 2242 SSD up to 1TB
- M.2 2280 SSD up to 1TB

Storage Slot

Two M.2 2280 PCIe® 4.0 x4 slots

Storage Type**

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe NVMe®, PCIe 3.0 x4	128GB / 256GB / 512GB / 1TB
M.2 2242 SSD	PCIe NVMe, PCIe 4.0 x4	256GB / 512GB / 1TB
M.2 2280 SSD	PCIe NVMe, PCIe 4.0 x4	512GB / 1TB

Notes:

[1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.

[2] The system supports dual SSD via two M.2 slots, but Lenovo only offers one SSD configuration, another SSD slot for user self-extension.

Removable Storage

Optical

None

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby® Audio™

Microphone

Dual-microphone array with AI-based noise-cancelling, switchable audio modes

Camera**

- FHD 1080p, with privacy shutter, fixed focus
- HD 720p, with privacy shutter, fixed focus

Battery

Battery**

- Integrated Li-Polymer 45Wh battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- Integrated Li-Polymer 60Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

Max Battery Life^[1]

- Models with 45Wh battery:



ThinkBook 14 G4 IAP

- MobileMark® 2018: 6 hr
- Local video (1080p) playback@150nits: 8 hr
- Models with 60Wh battery:
 - MobileMark 2018: 8 hr
 - Local video (1080p) playback@150nits: 11 hr

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Notes:

[1] All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, MobileMark 25, JEITA 2.0, continuous 1080p video playback (with 150nits brightness and default volume level) or Google Power Load Test (PLT) battery-life benchmark tests. Actual battery life will vary depending on many factors such as product configuration and usage, software use, wireless functionality, power management settings, and screen brightness. The maximum capacity of the battery will decrease with time and use.

Power Adapter

Power Adapter**[1]

- 65W USB-C (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C slim (2-pin, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz

Notes:

[1] AC adapter offerings depend on the country.

DESIGN

Display

Display**

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle (L/R/U/D)	Key Features
14"	FHD (1920x1080)	None	TN	250nits	Anti-glare	16:9	500:1	45% NTSC	45°/45°/15°/35°	-
14"	FHD (1920x1080)	None	IPS ^[1]	300nits	Anti-glare	16:9	700:1	45% NTSC	85°/85°/85°/85°	TÜV Low Blue Light
14"	FHD (1920x1080)	Multi-touch	IPS ^[2]	300nits	Anti-glare	16:9	700:1	45% NTSC	85°/85°/85°/85°	TÜV Low Blue Light
14"	FHD (1920x1080)	None	IPS	300nits	Anti-glare	16:9	1200:1	100% sRGB	85°/85°/85°/85°	TÜV Low Blue Light

Touchscreen

- On-cell multi-touch, supports 10-point touch
- Non-touch

Notes:

[1], [2] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

Input Device

Keyboard

6-row, spill-resistant, multimedia Fn keys, SMB Service Hot key

Keyboard Backlight

- LED backlight
- Non-backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 70 x 105 mm (2.76 x 4.13 inches)

Mechanical

Dimensions (WxDxH)^[1]

323 x 218 x 17.9 mm (12.72 x 8.58 x 0.7 inches)

Weight^[2]

ThinkBook 14 G4 IAP

Starting at 1.4 kg (3.09 lbs)

Case Color

Mineral grey, dual-tone design

Surface Treatment

Anodizing sandblasting

Case Material

Aluminium (top), aluminium (bottom)

Notes:

[1] The system dimensions may vary depending on configurations.

[2] The system weight is approximate and based on results in Lenovo lab, which varies depending on the source of component, variance of the distribution of each component, and manufacturing process. It may not be the exact weight for each specific model.

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CONNECTIVITY

Network

Ethernet**[1]

- Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro® models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models), 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth®**[2]

- 802.11ac 2x2 Wi-Fi® + Bluetooth 5.1, M.2 card
- Wi-Fi 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card^[3]
- Wi-Fi 6E, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card^[4]

Notes:

[1] Wake-on-LAN needs the power adapter plugged in.

[2] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

[3] Wi-Fi 6 full features might be limited by country-level restrictions.

[4] Wi-Fi 6E full features might be limited by country-level restrictions.

Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.

6GHz Wi-Fi 6E operation is dependent on the support of the operating system, routers/APs/Gateways that support Wi-Fi 6E, and the regional regulatory certifications & spectrum allocation.

Ports^[1]

Standard Ports

- 1x Card reader
- 1x Ethernet (RJ-45)
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort 1.4)

Notes:

[1] The transfer speed of following ports will vary and, depending on many factors, such as the processing speed of the host device, file attributes and other factors related to system configuration and your operating environment, will be slower than theoretical speed.

USB 2.0: 480 Mbit/s;

USB 3.2 Gen 1 (SuperSpeed USB 5Gbps, formerly USB 3.0 / USB 3.1 Gen 1): 5 Gbit/s;

USB 3.2 Gen 2 (SuperSpeed USB 10Gbps, formerly USB 3.1 Gen 2): 10 Gbit/s;

USB4 20Gbps / USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;

USB4 40Gbps (USB 40Gbps): 40 Gbit/s;

Thunderbolt 3/4: 40 Gbit/s.

Docking

Docking

ThinkBook 14 G4 IAP

Various docking solutions supported via Thunderbolt or USB-C.
For more compatible docking solutions, please visit [Docking for ThinkBook 14 G4 IAP](#)

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SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in SoC

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

Touch style fingerprint reader integrated in smart power button

BIOS Security

- Administrator password
- Power-on password
- Hard disk password
- Self-healing BIOS

Other Security

Camera privacy shutter

MANAGEABILITY

System Management

System Management

- Intel vPro Essentials^[1]
- Non-vPro

Notes:

[1] Intel vPro offers a superset of DASH's defined capabilities.

SERVICE

Warranty^[1]

Base Warranty^{**}

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service

Notes:

[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to <https://smartfind.lenovo.com/>. To learn more details of warranty policy, please access <https://pcsupport.lenovo.com/warranty>.

ENVIRONMENTAL

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°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)



Altitude

Maximum altitude (without pressurization): 3048 m (10,000 ft)

Notes:

[1] When you charge the battery, its temperature must be no lower than 10°C (50°F).

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ACCESSORIES**Bundled Accessories****Bundled Accessories**

- Lenovo 15.6" laptop casual toplayer, polyester
- None

CERTIFICATIONS**Green Certifications^[1]****Green Certifications**

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered^[2]
- (Optional) TCO Certified
- ErP Lot 26
- ErP Lot 6
- RoHS compliant

Notes:

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

[2] EPEAT is registered where applicable, please see <https://www.epeat.net> for registration status by country.

Other Certifications**Mil-Spec Test**

MIL-STD-810H military test passed

Other Certifications^[1]

(Optional) TÜV Rheinland® Low Blue Light (Software Solution)

Notes:

[1] TÜV Rheinland Low Blue Light is Not applicable for TN display.

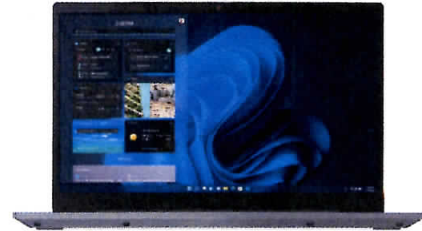
- Feature with ** means that only one offering listed under the feature is configured on selected models.
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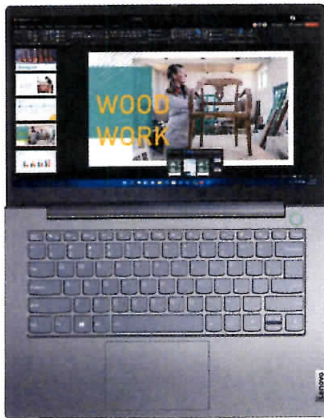
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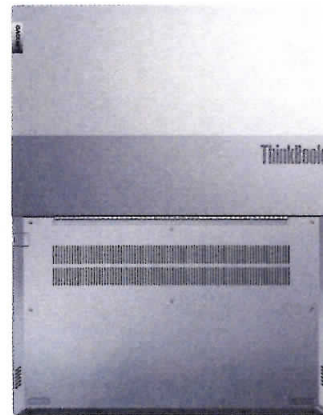
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Ciudad de México a 18 de diciembre de
2023

LICITACIÓN PÚBLICA LOCAL No. AD/CC/063/2023
"ADQUISICIÓN DE EQUIPOS DE CÓMPUTO PARA CENTROS DE DESARROLLO
Y CENTROS DE ATENCIÓN"

C. GABRIEL NESTOR CARDENAS GALVAN
JEFE DE DEPARTAMENTOS DE RECURSOS FINANCIEROS
Presente.-

Lenovo México, S. de R.L. de C.V., por medio de la presente hacemos de su conocimiento que la empresa Comercializadora Green Tech, SA. de CV. Es Distribuidor Autorizado para comercializar los bienes de la marca LENOVO correspondientes de la licitación al rubro mencionada, también cabe mencionar que la empresa cuenta con nuestro respaldo para participar en la misma

Sin otro particular agradecemos la atención que se le dé a la presente quedando a sus órdenes.

Atentamente,

A handwritten signature in blue ink, appearing to be "L. Vejar", written over a horizontal line.

Luis Fernando Vejar López
Representante Legal
Lenovo México, S. de R.L. de C.V.

A handwritten signature in blue ink, appearing to be "Luis Fernando Vejar López", written in a cursive style.

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Ciudad de México a 18 de diciembre de
2023

LICITACIÓN PÚBLICA LOCAL No. AD/CC/063/2023
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C. GABRIEL NESTOR CARDENAS GALVAN
JEFE DE DEPARTAMENTOS DE RECURSOS FINANCIEROS
Presente.-

Lenovo México, S. de R.L. de C.V., por medio de la presente hago de su conocimiento que contamos con una página web en la cual se puede consultar la información, así mismo podrán consultar y bajar los controladores y parches sin costo para la convocante con compatibilidad para los sistemas operativos soportados de los equipos ofertados por la empresa Comercializadora Green Tech SA. de CV. En la presente licitación; dicha página es la siguiente: www.lenovo.com

Sin otro particular agradecemos la atención que se le dé a la presente quedando a sus órdenes.
A t e n t a m e n t e,

Luis Fernando Vejar López
Representante Legal
Lenovo México, S. de R.L. de C.V.

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JEFE DE DEPARTAMENTOS DE RECURSOS FINANCIEROS
Presente.-

Lenovo México, S. de R.L. de C.V., por medio de la presente hacemos de su conocimiento que los bienes ofertados por la empresa Comercializadora Green Tech SA. de CV. En la presente licitación son equipos 100% nuevos, de fábrica, no son re manufacturados, ni reconstruidos y son funcionalmente nuevos.

Asimismo, manifestamos que los equipos cuentan con las siguientes pruebas militares (MIL-STD-810H):

- Prueba de Resistencia a Caídas
- Prueba de Resistencia para Colisión
- Prueba de Baja Altitud
- Prueba de Gran Altitud
- Prueba de Resistencia para Lluvia y Viento
- Prueba de Resistencia para Vibración
- Prueba de Resistencia contra la Arena y Polvo
- Prueba de Resistencia a la Corrosión
- Prueba de Resistencia a Temperaturas Extremas (altas y bajas)
- Prueba de Choque de Temperaturas
- Prueba de Radiación Solar
- Prueba de Resistencia a la Contaminación de Líquidos
- Prueba de Resistencia a la Humedad
- Prueba de Niebla Salina
- Prueba de Resistencia a Hongos

Sin otro particular agradecemos la atención que se le dé a la presente quedando a sus órdenes.
A t e n t a m e n t e,

Luis Fernando Vejar López
Representante Legal
Lenovo México, S. de R.L. de C.V.

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JEFE DE DEPARTAMENTOS DE RECURSOS FINANCIEROS
Presente.-

Lenovo México, S. de R.L. de C.V., por medio de la presente hacemos de su conocimiento que los bienes ofertados por la empresa Comercializadora Green Tech SA. de CV. de la marca LENOVO cuentan con una garantía de 3 años en equipo, priorizando en partes, mano de obra y en sitio con validez al siguiente día hábil, así como cobertura en los 32 estados a nivel nacional mediante plataformas telefónicas y página web de la marca LENOVO.

Asimismo, la marca se compromete a enviar Guías propagadas en caso de falla que indique la página web para la atención de la misma.

Sin otro particular agradecemos la atención que se le dé a la presente quedando a sus órdenes.
A t e n t a m e n t e,

Luis Fernando Vejar López
Representante Legal
Lenovo México, S. de R.L. de C.V.

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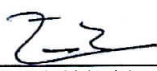
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Presente.-

Lenovo México, S. de R.L. de C.V., por medio de la presente hacemos de su conocimiento que la empresa Comercializadora Green Tech, SA. de CV. oferta equipos con características superiores a las solicitadas en la presente licitación, a continuación, hacemos mención de las mismas:

Partida 1		
Equipo de cómputo de escritorio Lenovo ThinkCentre M70s Gen 3		
Características solicitadas	Características ofertadas	
Procesador de última generación de 10 a 14 núcleos con frecuencia base de 2.50 Ghz, frecuencia turbo máxima entre 4.60 GHz y 4.80 GHz, caché L3 entre 20MB y 24MB	Procesador de 12va generación (i7-12700) de 12 núcleos con frecuencia base de 2.1 GHz, frecuencia turbo máxima entre 4.8 GHz y 4.9 GHz, caché L3 de 25MB	Superior
Memoria RAM de 8GB 3200 MHz DDR4-SDRAM mínimo, 2 DIMM y 64 GB máximo	Memoria RAM de 16GB 3200 MHz DDR4-RAM, 4 DIMM y 128GB máximo	Superior
Almacenamiento SSD 256GB mínimo	almacenamiento SSD 512GB	Superior
Bluetooth 5.0	Bluetooth 5.1	Superior
8 puertos USB (4 x USB 3.0, 4 x USB 2.0)	9 puertos USB (4 x USB 3.2, 4 x USB 2.0, 1 x USB-C 3.2)	Superior
monitor LED FHD entre 21" y 23"	Monitor Lenovo ThinkVision E24-29 LED FHD de 23.8"	Superior
Sistema operativo Windows 10 Pro en español 64 Bits OEM	sistema operativo Windows 11 Pro en español 64 Bits OEM	Superior
Garantía de 1 año mínimo	Garantía de 3 años en partes, mano de obra y en sitio.	Superior

Sin otro particular agradecemos la atención que se le dé a la presente quedando a sus órdenes.

Atentamente,


Luis Fernando Vejar López
Representante Legal
Lenovo México, S. de R.L. de C.V.





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conocimiento que la empresa Comercializadora Green Tech, SA. de CV. oferta equipos
con características superiores a las solicitadas en la presente licitación, a continuación,
hacemos mención de las mismas:

Partida 2 Laptop Lenovo ThinkPad L14 Gen 4		
Características solicitadas	Características ofertadas	
Procesador de última generación de 10 núcleos mínimo con frecuencia base de 1.70 GHz, frecuencia turbo máxima 4.20 GHz, caché L3 12MB	procesador de última generación (Intel Core i5-1335U) de 10 núcleos con frecuencia base de 1.3 GHz, frecuencia turbo máxima 4.6 GHz, caché L3 12MB	Superior
Bluetooth 5.0	Bluetooth 5.3	Superior
3 puertos USB (al menos dos de ellos USB 3)	4 puertos USB (3 USB 3.2, 1 Thunderbolt/USB 4)	Superior
Sistema operativo Windows 10 Pro en español 64 Bits OEM	sistema operativo Windows 11 Pro en español 64 Bits OEM	Superior
Garantía de 1 año mínimo	Garantía de 3 años en partes, mano de obra y en sitio.	Superior

Sin otro particular agradecemos la atención que se le dé a la presente quedando a sus órdenes.

Atentamente


Luis Fernando Vejar López
Representante Legal
Lenovo México, S. de R.L. de C.V.



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2023

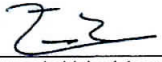
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Presente.-

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Partida 3 Laptop Lenovo ThinkBook 14 G4 IAP		
Características solicitadas	Características ofertadas	
Procesador de 4 a 6 núcleos con frecuencia base de 2.30 GHz mínimo, frecuencia turbo máxima 5.00 GHz, caché L13 entre 8MB y 12MB	procesador Intel Core i7-1255U de 10 núcleos con frecuencia base de 1.7 GHz, frecuencia turbo máxima 4.7 GHz, caché L3 12MB	Superior
Bluetooth 5.0	Bluetooth 5.1	Superior
Batería de polímero de litio con capacidad de 40 Wh mínimo	batería de polímero de litio con capacidad de 45 Wh	Superior
3 puertos USB (al menos dos de ellos USB 3)	4 puertos USB (3 USB 3.2, 1 Thunderbolt/USB 4)	Superior
Sistema operativo Windows 10 Pro en español 64 Bits OEM	sistema operativo Windows 11 Pro en español 64 Bits OEM	Superior

Sin otro particular agradecemos la atención que se le dé a la presente quedando a sus órdenes.
A t e n t a m e n t e,


Luis Fernando Vejar López
Representante Legal
Lenovo México, S. de R.L. de C.V.