

## OVERVIEW



1. Power button	3. 2x Thunderbolt 4
2. Headphone / microphone combo jack (3.5mm)	

Notes:

- Optional nano-SIM card slot on the rear side (not shown on the sample product above)

## PERFORMANCE

### Processor

#### Processor Family

12th Generation Intel® Core™ i5 / i7 Processor

#### Processor\*\*

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
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	LPDDR5-5200	Intel Iris® Xe Graphics
Core i5-1250P	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	LPDDR5-5200	Intel Iris Xe Graphics
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	LPDDR5-5200	Intel Iris Xe Graphics
Core i7-1270P	12 (4 P-core + 8 E-core)	16	P-core 2.2GHz / E-core 1.6GHz	P-core 4.8GHz / E-core 3.5GHz	18MB	LPDDR5-5200	Intel Iris Xe Graphics
Core i7-1280P	14 (6 P-core + 8 E-core)	20	P-core 1.8GHz / E-core 1.3GHz	P-core 4.8GHz / E-core 3.6GHz	24MB	LPDDR5-5200	Intel Iris Xe Graphics

### Operating System

#### Operating System\*\*

- Windows® 11 Pro 64
- Windows 11 Home 64
- Windows 11 DG Windows 10 Pro 64
- Linux
- Ubuntu Linux
- No operating system

### Graphics

#### Graphics

Graphics	Type	Memory	TGP	Key Features
Intel Iris Xe Graphics	Integrated	Shared	Share CPU TDP	DirectX® 12.1

### Monitor Support

#### Monitor Support<sup>[1]</sup>

Supports up to 3 independent displays (native display and 2 external monitors via Thunderbolt™)

- Thunderbolt supports up to 5K@60Hz

#### Notes:

1. Refresh rates >60hz also supported, however max resolution will be limited.

### Chipset

#### Chipset

Intel SoC (System on Chip) platform

### Memory

#### Max Memory<sup>[1][2]</sup>

- 16GB soldered memory, not upgradable
- 32GB soldered memory, not upgradable

#### Memory Slots

Memory soldered to systemboard, no slots, 8-channel

#### Memory Type<sup>[3]</sup>

LPDDR5-5200

## Notes:

1. The max memory is based on the test results with current Lenovo® memory offerings. The system may support more memory as the technology develops.
2. 32GB memory is only for i7-1280P models.
3. Installed memory is actually 6400MHz but run at 5200MHz due to processor limitation

## Storage

### Storage Support<sup>[1]</sup>

One drive, up to 1TB M.2 2242 SSD

### Storage Slot

One M.2 2242 PCIe® Gen 4x4 slot, supports M.2 2242 SSD

### Storage Type

Disk Type	Interface	Offering	Security
M.2 2242 SSD	PCIe NVMe®, PCIe 4.0 x4	256GB / 512GB / 1TB	Opal2

## Notes:

1. The storage capacity supported is based on the test results with current Lenovo storage offerings. The system may support larger storage as the technology develops.

## Removable Storage

### Card Reader

No card reader

## Multi-Media

### Audio Chip

High Definition (HD) Audio, Realtek® ALC3306 codec

### Speakers

Stereo speakers, 2W x2 woofers and 1W x2 tweeters, Dolby® Atmos® Speaker System

### Microphone

Four microphones, quad-array, far-field, Dolby Voice

### Camera<sup>\*\*[1]</sup>

- FHD 1080p, with privacy shutter, fixed focus
- IR & FHD 1080p hybrid, with privacy shutter, fixed focus
- IR & FHD 1080p discrete, MIPI, with privacy shutter & Computer Vision, fixed focus

## Notes:

1. 1080p camera and MIPI camera are only available on non-touch models.  
IR&1080p camera is only available on touch models.

## Battery

### Battery

Integrated Li-Polymer 49.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

### Battery Life<sup>[1]</sup>

Configuration 1 (max battery life)

MobileMark® 2018: up to 11.0 hr with 871 performance score @200nits

MobileMark 25: up to 10.3 hr with 806 performance score @250nits

JEITA 2.0: up to 18.2 hr @150nits

Local video playback: up to 16.2 hr @150nits

Alternate configuration 2

MobileMark 2018: up to 10.4 hr with 888 performance score @200nits

MobileMark 25: up to 9.8 hr with 796 performance score @250nits

JEITA 2.0: up to 17.9 hr @150nits

Local video playback: up to 15.6 hr @150nits

Alternate configuration 3

MobileMark 2018: up to 10.1 hr with 845 performance score @200nits

# ThinkPad X1 Nano Gen 2

MobileMark 25: up to 9.6 hr with 838 performance score @250nits  
 JEITA 2.0: up to 17.0 hr @150nits  
 Local video playback: up to 15.4 hr @150nits

## Notes:

- Configuration 1 (max battery life): 2K (non-touch), Intel i5-1240P, 16GB LPDDR5, Win 11, 49.5Wh battery, best power efficiency power mode  
 Alternate configuration 2: 2K (non-touch), Intel i5-1250P, 16GB LPDDR5, Win 11, 49.5Wh battery, best power efficiency power mode  
 Alternate configuration 3: 2K (non-touch), Intel i7-1280P, 32GB LPDDR5, Win 11, 49.5Wh battery, best power efficiency power mode

All battery life claims are approximate maximum and based on results using [MobileMark 2018](#), [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 and depends 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\*\*<sup>[1][2]</sup>

- 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
- No power adapter

## Notes:

- AC adapter offerings depend on the country.
- No power adapter is for special bid only.

## DESIGN

### Display

#### Display\*\*<sup>[1]</sup>

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Key Features
13.0"	2K (2160x1350)	None	IPS	450 nits	Anti-glare	16:10	1000:1	100% sRGB	170°	Low power
13.0"	2K (2160x1350)	Multi-touch	IPS	450 nits	Anti-glare, Anti-reflection, Anti-smudge	16:10	1000:1	100% sRGB	170°	Low power

#### Touchscreen<sup>[2]</sup>

- Add-on Film Touch, supports 10-point touch
- Non-touch

## Notes:

- California Electronic Waste Recycling Fee  
 In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product.  
 For more information, go to <https://www.calrecycle.ca.gov/Electronics/Consumer>
- Multi-touch display is only for black weave models.

## Input Device

### Keyboard

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

### Keyboard Backlight

LED backlight

### UltraNav™

TrackPoint® pointing device and glass surface multi-touch touchpad, 56 x 110 mm (2.20 x 4.33 inches)

## Mechanical<sup>[1]</sup>

### Dimensions (WxDxH)

Models	Dimensions
Touch models	293.3 x 208.1 x 14.8 mm (11.55 x 8.19 x 0.58 inches)
Non-touch models	293.2 x 208.0 x 14.4 mm (11.54 x 8.19 x 0.57 inches)

**Weight**

Models	Weight
Touch models	Starting at 991.5 g (2.19 lbs)
Non-touch models	Starting at 966.5 g (2.13 lbs)

**Case Color\*\***

- Black, paint
- Black, weave

**Case Material**

Carbon fiber (top), magnesium alloy (bottom)

**Notes:**

1. The system dimensions and weight vary depending on configurations.

**CONNECTIVITY****Network****Onboard Ethernet<sup>[1]</sup>**

No Ethernet

**WLAN + Bluetooth<sup>[2][3]</sup>**

Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2

**WWAN\*\***

- Wireless WAN upgradable to 4G or 5G (with antenna ready)
- Fibocom L860-GL-16, 4G LTE CAT16, MIMO 4x4, M.2 card
- Qualcomm® Snapdragon™ X55 5G Sub-6 GHz Modem-RF System, M.2 card, with embedded eSIM functionality
- No support

**SIM Card**

- Gemalto eSIM
- No SIM card inbox

**NFC**

No support

**Notes:**

1. Ethernet support via optional Lenovo USB-C to Ethernet Adapter
2. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitation
3. Wi-Fi 6E full features might be limited by country level restrictions.  
Wi-Fi 6E 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<sup>[1]</sup>****Standard Ports**

- 2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x Headphone / microphone combo jack (3.5mm)

**Optional Ports**

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;  
USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;  
Thunderbolt 3/4: 40 Gbit/s

## Docking

### Docking

Various docking solutions supported via Thunderbolt / USB-C.

For more compatible docking solutions, please visit [Docking for ThinkPad® X1 Nano Gen 2](#)

## Monitor Cable

### Monitor Cable\*\*\*

- Lenovo USB-C to HDMI® Adapter
- Lenovo USB-C to VGA Adapter
- No monitor cable

## SECURITY & PRIVACY

## Security

### Security Chip

Discrete TPM 2.0, TCG certified

### Smart Card Reader

No smart card reader

### Fingerprint Reader

Touch style fingerprint reader on palm rest, match-on-chip

### BIOS Security

- Power-on password
- Supervisor password
- System management password
- NVMe password
- USB FIDO (Fast Identity Online) device integration
- Certificate based BIOS authentication
- Firmware Resiliency 3.0

### Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows Hello
- (Optional) Computer Vision-based User Presence Sensing including lock on leave
- Mirametrix Glance
- Tile ready

## MANAGEABILITY

## System Management

### System Management<sup>[1]</sup>

- Intel vPro
- Non-vPro

Notes:

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

## SERVICE

## Warranty

### Base Warranty\*\*<sup>[1]</sup>

- 1-year depot service
- 1-year depot with 2-year system board service (Korea only)
- 1-year limited onsite service

- 3-year (1-yr battery) depot service
- 3-year (1-yr battery) limited onsite service
- No base warranty

#### Notes:

1. More information of warranty policy, please access <https://pcsupport.lenovo.com/warranty>

## ENVIRONMENTAL

### Sustainability

#### Material

- 97% PCC recycled plastic used in the 49.6Wh battery
- 30% PCC recycled plastic used in speaker enclosure
- Low-temperature solder
- 90% recycled and/or sustainable packaging

### Operating Environment

#### Temperature<sup>[1]</sup>

- 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).

## ACCESSORIES

### Bundled Accessories

#### Bundled Accessories\*\*\*

- Lenovo USB-C to Ethernet Adapter
- Lenovo USB-C Port Replicator
- None

## CERTIFICATIONS

### Green Certifications

#### Green Certifications

- EPEAT™ Gold
- ENERGY STAR® 8.0
- ErP Lot 3
- TCO Certified 9.0
- RoHS compliant

### Other Certifications

#### Mil-Spec Test

MIL-STD-810H military test passed

#### Other Certifications

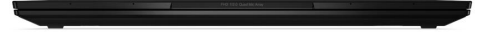
(Optional) Intel Evo™ Platform

- 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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