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Version 552, December 2019

PSREF
Product Specifications Reference

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## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cover</td>
<td>1</td>
</tr>
<tr>
<td>Contents</td>
<td>2</td>
</tr>
<tr>
<td>Summary Of Change</td>
<td>3</td>
</tr>
<tr>
<td>ThinkBook</td>
<td>4</td>
</tr>
<tr>
<td><strong>ThinkBook 14-IML</strong></td>
<td>4</td>
</tr>
<tr>
<td>ThinkBook 14-IML Platform Specifications</td>
<td>5</td>
</tr>
<tr>
<td><strong>ThinkBook 15-IML</strong></td>
<td>6</td>
</tr>
<tr>
<td>ThinkBook 15-IML Platform Specifications</td>
<td>7</td>
</tr>
<tr>
<td><strong>ThinkBook S</strong></td>
<td>8</td>
</tr>
<tr>
<td><strong>ThinkBook 13s-IML</strong></td>
<td>8</td>
</tr>
<tr>
<td>ThinkBook 13s-IML Platform Specifications</td>
<td>9</td>
</tr>
<tr>
<td><strong>ThinkBook 13s-IWL</strong></td>
<td>10</td>
</tr>
<tr>
<td>ThinkBook 13s-IWL Platform Specifications</td>
<td>11</td>
</tr>
<tr>
<td><strong>ThinkBook 14s-IML</strong></td>
<td>12</td>
</tr>
<tr>
<td>ThinkBook 14s-IML Platform Specifications</td>
<td>13</td>
</tr>
<tr>
<td><strong>ThinkBook 14s-IWL</strong></td>
<td>14</td>
</tr>
<tr>
<td>ThinkBook 14s-IWL Platform Specifications</td>
<td>15</td>
</tr>
<tr>
<td><strong>Legal Information</strong></td>
<td>16</td>
</tr>
</tbody>
</table>
Summary of Changes

This section describes the technical changes made in this edition. This edition might also include minor corrections and editorial changes which are not identified.

December 11, 2019 - Version 552

Additions in this update
   ► New product(s)
       ThinkBook 14-IIL, ThinkBook 15-IIL
   ► New model(s)
       None
   ► Others
       None

Withdrawals in this update
   ► Withdrawn product(s)
       None
## ThinkBook 14-IML Platform Specifications

<table>
<thead>
<tr>
<th>Processor</th>
<th>10th Generation Intel® Core™ i3 / i5 / i7 Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Number</td>
</tr>
<tr>
<td>i3-10110U</td>
<td>2</td>
</tr>
<tr>
<td>i3-10100U</td>
<td>2</td>
</tr>
<tr>
<td>i3-1010U</td>
<td>2</td>
</tr>
<tr>
<td>i3-1005U</td>
<td>2</td>
</tr>
<tr>
<td>i5-1050U</td>
<td>4</td>
</tr>
<tr>
<td>i5-1040U</td>
<td>4</td>
</tr>
<tr>
<td>i5-1030U</td>
<td>4</td>
</tr>
<tr>
<td>i7-1050U</td>
<td>6</td>
</tr>
<tr>
<td>i7-1040U</td>
<td>6</td>
</tr>
<tr>
<td>i7-1030U</td>
<td>6</td>
</tr>
</tbody>
</table>

* DDR4-2666 Intel UHD Graphics

| Graphics | Intel UHD Graphics in processor only or Intel UHD Graphics in processor and AMD Radeon™ 625, 2GB GDDR5 memory; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 3840x2160@60Hz (USB Type-C); 3840x2160@30Hz (HDMI) |

| Chipset Memory | Intel SoC (System on Chip) platform 24GB max / 2666MHz DDR4, 4GB or 8GB memory soldered to system board, one DDR4 SO-DIMM socket |

<table>
<thead>
<tr>
<th>Display</th>
<th>Size</th>
<th>Resolution</th>
<th>Surface</th>
<th>Type</th>
<th>Brightness</th>
<th>Aspect Ratio</th>
<th>Contrast Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.0&quot; (356mm)</td>
<td>FHD (1920x1080)</td>
<td>Anti-glare</td>
<td>TN</td>
<td>220 nits</td>
<td>16:9</td>
<td>500:1</td>
<td></td>
</tr>
<tr>
<td>14.0&quot; (356mm)</td>
<td>FHD (1920x1080)</td>
<td>Anti-glare</td>
<td>IPS</td>
<td>250 nits</td>
<td>16:9</td>
<td>800:1</td>
<td></td>
</tr>
</tbody>
</table>

| Multi-touch | None |

<table>
<thead>
<tr>
<th>Storage</th>
<th>Up to 2 drives (one HDD and one M.2 SSD):</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDD / SATA 6.0Gb/s, 2.5&quot; wide, 7mm high, Active Protection System</td>
<td></td>
</tr>
<tr>
<td>M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2</td>
<td></td>
</tr>
<tr>
<td>M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4</td>
<td></td>
</tr>
<tr>
<td>Intel Optane™ Memory H10 with SSD, M.2 2280, PCIE NVMe 3.0 x 4</td>
<td></td>
</tr>
</tbody>
</table>

| Optical | None |

| Ethernet | Gigabit Ethernet connection |

<table>
<thead>
<tr>
<th>WLAN</th>
<th>One of the following, configurable by model:</th>
</tr>
</thead>
<tbody>
<tr>
<td>802.11ac 1x1 Wi-Fi + Bluetooth 5.0, M.2 card</td>
<td></td>
</tr>
<tr>
<td>802.11ac 2x2 Wi-Fi + Bluetooth 5.0, M.2 card</td>
<td></td>
</tr>
<tr>
<td>802.11ax 2x2 Wi-Fi + Bluetooth 5.0, M.2 card</td>
<td></td>
</tr>
</tbody>
</table>

| Bluetooth™ | Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter |

| Dimensions | W x D x H: 12.8" x 9.06" x 0.7"; 326mm x 230mm x 17.9mm |
| Weight | Starting at 3.3 lb / 1.5 kg |
| Case color | Mineral Grey |
| Case material | Aluminum |

**Note:** The specifications above may not be available in all regions.

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**Product Specifications Reference (PSREF)**

**Media reader**
- 4-in-1 media reader (MMC, SD, SDHC, SDXC)

**Ports**
- One hidden USB 2.0, two USB 3.1 Gen 1 (one with Always On), One USB-C 3.1 Gen 1, one USB-C 3.1 Gen 2 (with the function of DisplayPort and power delivery), 4-in-1 media reader (MMC, SD, SDHC, SDXC), Ethernet (RJ45), HDMI 1.4b, headphone / microphone combo jack, AC power adapter jack
  - *Depending on many factors, actual data transfer speed may be lower than theoretical speed*

**Camera**
- HD720p, fixed focus, ThinkShutter, integrated dual array digital microphone

**Audio support**
- HD Audio, Realtek ALC3287 codec, stereo speakers, 2W x 2, Dolby® Audio™, dual array digital microphone

**Keyboard**
- 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

**Trackpad**
- Buttonless Mylar surface touchpad, multi-touch

**Security**
- Power-on password, hard disk password, supervisor password

**Security chip**
- Firmware TPM 2.0 integrated in chipset

**Fingerprint reader**
- Optional: Touch style fingerprint reader on power button

**Battery**
- Integrated Li-ion 45Wh (supports Rapid Charge 1 hr 80%) or 57Wh battery

**Max battery life**
- MobileMark 2014: 9 hr (45Wh) or 12 hr (57Wh)
  - *Battery life varies significantly with settings, usage, & other factors*

**AC adapter**
- 65W slim tip (rectangle) or slim USB-C AC adapter

**Preload (optional)**
- Preloaded operating system
  - Windows® 10 Home 64
  - Windows 10 Home in S mode
  - Windows 10 Pro 64
  - Windows 10 Pro in S mode
  - Preloaded applications (only some listed)
  - Microsoft Office Home and Business 2019
  - Microsoft Office Home and Student 2019
  - Microsoft Office Pro 2019
  - Microsoft Office Trial (with 30-day license)
  - Microsoft Office 365 Personal

**Limited warranty**
- One of the following, configurable by model:
  - 1-year depot repair service
  - 1-year/2-yr system board depot repair service
  - 2-year/1-yr battery depot repair service

**Mil-Spec test**
- MIL-STD-810G military testing

**Environment**
- EPEAT® Silver; ENERGY STAR® 7.1; ErP lot3, RoHS-compliant

Lenovo
November 2019
# ThinkBook 15-IML Platform Specifications

## Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i3-10110U</td>
<td>2</td>
<td>4</td>
<td>2.1 GHz</td>
<td>4.1 GHz</td>
<td>4MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>i5-10210U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>4.2 GHz</td>
<td>6MB</td>
<td></td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>i7-10510U</td>
<td>6</td>
<td>12</td>
<td>1.8 GHz</td>
<td>4.9 GHz</td>
<td>8MB</td>
<td></td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>i7-10710U</td>
<td>8</td>
<td>12</td>
<td>1.1 GHz</td>
<td>4.7 GHz</td>
<td>12MB</td>
<td></td>
<td>Intel UHD Graphics</td>
</tr>
</tbody>
</table>

## Graphics

- Intel UHD Graphics in processor only or, Intel UHD Graphics in processor and AMD Radeon™ 620, 2GB GDDR5 memory; supports external digital display via HDMI or USB Type-C; supports three independent displays; Max resolution: 3840x2160@60Hz (HDMI); 3840x2160@60Hz (USB Type-C)

## Chipset

- Intel SoC (System on Chip) platform
- 24GB max / 2666MHz DDR4, 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket

## Memory

- One of the following, configurable by model:
  - DDR4-2666
  - DDR4-2400

## Display

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Surface</th>
<th>Type</th>
<th>Brightness</th>
<th>Aspect Ratio</th>
<th>Contrast Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.6&quot; (396mm)</td>
<td>FHD (1920x1080)</td>
<td>Anti-glare</td>
<td>TN</td>
<td>220 nits</td>
<td>16:9</td>
<td>500:1</td>
</tr>
<tr>
<td>15.6&quot; (396mm)</td>
<td>FHD (1920x1080)</td>
<td>Anti-glare</td>
<td>IPS</td>
<td>250 nits</td>
<td>16:9</td>
<td>800:1</td>
</tr>
</tbody>
</table>

## Storage

- Up to 2 drives (one HDD and one M.2 SSD):
  - HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System
  - M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2
  - M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4
  - Intel Optane™ Memory H10 with SSD, M.2 2280, PCIe NVMe 3.0 x 4

## Optical

- None

## Ethernet

- Gigabit Ethernet connection

## WLAN

- One of the following, configurable by model:
  - 802.11ac 1x1 Wi-Fi + Bluetooth 5.0, M.2 card
  - 802.11ac 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
  - 802.11ax 2x2 Wi-Fi + Bluetooth 5.0, M.2 card

## Bluetooth™

- Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

## Dimensions

- 14.33" x 9.65" x 0.74"; 364mm x 245mm x 18.9mm

## Weight

- Starting at 3.97 lb / 1.8 kg

## Case color

- Mineral Grey

## Case material

- Display cover: Aluminum
- Bottom: PC/ABS plastic

## Preload (optional)

- Preloaded operating system:
  - Windows® 10 Home 64
  - Windows 10 Pro 64

- Preloaded applications (only some listed):
  - Microsoft Office 365 Home
  - Microsoft Office Home and Business 2019
  - Microsoft Office Home and Student 2019
  - Microsoft Office Pro 2019
  - Microsoft Office Trial (with 30-day license)

## Preloaded applications (only some listed)

- Microsoft Office 365 Home
- Microsoft Office Home and Business 2019
- Microsoft Office Home and Student 2019
- Microsoft Office Pro 2019
- Microsoft Office Trial (with 30-day license)

## MIL-Spec test

- MIL-STD-810G military testing

## Environment

- EPEAT® Silver, ENERGY STAR® 7.1, ErP lot3, RoHS-compliant

Note: The specifications above may not be available in all regions.

Lenovo
November 2019
## ThinkBook 13s-IML Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i5-10210U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>4.2 GHz</td>
<td>6MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>i7-10510U</td>
<td>6</td>
<td>12</td>
<td>1.8 GHz</td>
<td>4.9 GHz</td>
<td>8MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>i7-10710U</td>
<td>6</td>
<td>12</td>
<td>1.1 GHz</td>
<td>4.7 GHz</td>
<td>12MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics</td>
</tr>
</tbody>
</table>

### Graphics

- Intel UHD Graphics in processor only or, Intel UHD Graphics in processor and AMD Radeon™ 630, 2GB GDDR5 memory;
- supports external digital monitor via HDMI or USB Type-C;
- supports three independent displays;
- Max resolution: 3840x2160@60Hz (USB Type-C); 3840x2160@30Hz (HDMI)

### Chipset Memory

Intel SoC (System on Chip) platform

16GB max / 2666MHz DDR4, one DDR4 SO-DIMM socket

### Display

- **Size:** 13.3" FHD (1920x1080)
- **Surface:** Anti-glare
- **Type:** IPS
- **Brightness:** 300 nits
- **Aspect Ratio:** 16:9
- **Contrast Ratio:** 700:1
- **Viewing Angle:** 170°

### Multi-touch

None

### Storage

One of the following, configurable by model:
- M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2
- M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4
- Intel Optane® Memory H10 with SSD, M.2 2280, PCIe NVMe 3.0 x 4

### Optical

None

### Ethernet

None

### WLAN

Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card

### Bluetooth™

Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

### Dimensions

- **Height:** 12.11" x 8.52" x 0.63"; 307.6mm x 216.4mm x 15.9mm
- **Weight:** Starting at 2.91 lb / 1.32 kg

### Case color

Mineral Grey

### Case material

Aluminum

### Media reader

None

### Ports

- Two USB 3.1 Gen 1 (one with Always On), one USB-C 3.1 Gen 2 (with the function of Power Delivery and DisplayPort), HDMI 1.4b, headphone / microphone combo jack, AC power adapter jack
- Depending on many factors, actual data transfer speed may be lower than theoretical speed

### Camera

HD720p camera, fixed focus, ThinkShutter

### Audio support

HD Audio, Harman speakers, 2W x 2, Dolby® Audio® X3, dual array digital microphone, headphone / microphone combo jack

### Keyboard

6-row, multimedia Fn keys, optional LED backlight

### Trackpad

Buttonless Mylar surface multi-touch touchpad

### Security chip

Discrete TPM 2.0, TCG Certified

### Fingerprint reader

Optional: Touch style fingerprint reader on power button

### Battery

- Integrated Li-ion 45Wh battery, supports rapid charge (1 hour 80%)
- Maximum battery life MobileMark® 2014: 11 hr
- * Battery life varies significantly with settings, usage, & other factors

### AC adapter

45W slim tip / USB-C or 65W slim tip / USB-C AC adapter

### Preload (opt)

- **Operating system:**
  - Windows® 10 Home 64
  - Windows 10 Pro 64
  - Preloaded applications (only some listed)
  - Microsoft Office Home and Business 2019
  - Microsoft Office Home and Student 2019
  - Microsoft Office Trial (with 30-day license)
  - Microsoft Office 365 Home

### Limited warranty

One of the following, configurable by model:
- 1-year depot repair service
- 1-year/2-yr system board depot repair service
- 2-year/1-yr battery depot repair service

### Environment

- ENERGY STAR® 7.1; ErP lot3; RoHS-compliant

---

Note: The specifications above may not be available in all regions.
### ThinkBook 13s-IWL Platform Specifications

#### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i5-8265U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>3.9 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
<tr>
<td>i7-8565U</td>
<td>4</td>
<td>8</td>
<td>1.8 GHz</td>
<td>4.6 GHz</td>
<td>8MB</td>
<td>DDR4-2400</td>
<td>Intel UHD Graphics 620</td>
</tr>
</tbody>
</table>

#### Graphics

Intel UHD Graphics 620 in processor only or Intel UHD Graphics 620 in processor and AMD Radeon™ 540X, 2GB GDDR5 memory; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 3840x2160@60Hz (USB Type-C); 3840x2160@30Hz (HDMI)

#### Chipset

Intel SoC (System on Chip) platform

#### Display

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Surface</th>
<th>Type</th>
<th>Brightness</th>
<th>Aspect Ratio</th>
<th>Contrast Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.3&quot; FHD (1920x1080)</td>
<td>Anti-glare</td>
<td>IPS</td>
<td>300 nits</td>
<td>16:9</td>
<td>800:1</td>
<td></td>
</tr>
</tbody>
</table>

#### Multi-touch

None

#### Storage

One of the following, configurable by model:
- M.2 SSD / SATA 6.0Gb/s
- M.2 (2242) SSD / PCIe NVMe, PCIe 3.0 x 2
- M.2 (2280) SSD / PCIe NVMe, PCIe 3.0 x 4
- Intel Optane™ Memory H10 with SSD, M.2 2280, PCIe NVMe 3.0 x 4

#### Optical

None

#### Ethernet

Gigabit Ethernet connection via optional Lenovo USB-C to Ethernet Adapter

#### WLAN Bluetooth

Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card

#### Dimensions

WxDxH: 12.11" x 8.52" x 0.63"; 307.6mm x 216.4mm x 15.9mm

#### Weight

Starting at 2.91 lb / 1.32 kg

#### Case color

Mineral Grey

#### Case material

Aluminum

#### Media reader

None

#### Ports

One USB-C 3.1 Gen 2 (with the function of DisplayPort), two USB 3.1 Gen 1 (one with Always On), HDMI 1.4b, headphone / microphone combo jack, AC power adapter jack

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

#### Key features

- HD20p camera, fixed focus, ThinkShutter
- HD Audio, Realtek ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ X3, Skype For Business certified
dual array integrated digital microphone, microphone subsystem optimized for voice recognition
- 6-row, spill-resistant, multimedia Fn keys, optional LED backlight
- Discrete TPM 2.0, TCG Certified
- Battery life varies significantly with settings, usage, & other factors
- Preloaded operating system
  - Windows® 10 Home 64
  - Windows 10 Pro 64
  - Preloaded applications (only some listed)
  - Microsoft Office 365 Home
  - Microsoft Office 365 Personal
  - Microsoft Office Home and Business 2019
  - Microsoft Office Home and Student 2019
  - Microsoft Office Professional 2019
  - Microsoft Office Trial (with 30-day license)
- One of the following, configurable by model:
  - 1-year depot repair service
  - 1-year/2-year system board depot repair service
  - 2-year/1-year battery depot repair service
- ENERGY STAR® 7.0, RoHS-compliant

### Note

The specifications above may not be available in all regions.
## Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
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<th>Memory Types</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i5-10210U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>4.2 GHz</td>
<td>6MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>i7-10510U</td>
<td>6</td>
<td>12</td>
<td>1.1 GHz</td>
<td>4.7 GHz</td>
<td>12MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics</td>
</tr>
</tbody>
</table>

**Graphics**
- Intel UHD Graphics in processor only or Intel UHD Graphics in processor and AMD Radeon™ 630, 2GB GDDR5 memory;
- supports external digital monitor via HDMI or USB Type-C;
- supports three independent displays;
- Max resolution: 3840x2160@60Hz (USB Type-C); 3840x2160@30Hz (HDMI)

**Chipset**
- Intel SoC (System on Chip) platform
- Memory: 16GB max / 2666MHz DDR4, one DDR4 SO-DIMM socket

**Display**
- One of the following, configurable by model:
  - 14" (356mm) FHD (1920x1080), IPS, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio
  - 14" (356mm) FHD (1920x1080), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 700:1 contrast ratio
- Multi-touch: None

**Storage**
- One of the following, configurable by model:
  - M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2
  - M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4
  - Intel Optane™ Memory H10 with SSD, M.2 2280, PCIe NVMe 3.0 x 4
- Optical: None

**Ethernet**
- None

**WLAN**
- Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card
- Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

**Dimensions**
- WxDxH: 12.70" x 8.77" x 0.65"; 322.5mm x 222.8mm x 16.5mm

**Weight**
- Starting at 3.21 lb / 1.46 kg

**Case color**
- Mineral Grey

**Case material**
- Aluminum

**Note:** The specifications above may not be available in all regions.
## ThinkBook 14s-IWL Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>i5-8265U</td>
<td>4</td>
<td>8</td>
<td>1.6 GHz</td>
<td>3.9 GHz</td>
<td>6MB</td>
<td>DDR4-2400</td>
</tr>
<tr>
<td>i7-8565U</td>
<td>4</td>
<td>8</td>
<td>1.8 GHz</td>
<td>4.6 GHz</td>
<td>8MB</td>
<td>DDR4-2400</td>
</tr>
</tbody>
</table>

### Graphics

- AMD Radeon™ 540X, 2GB GDDR5 memory
- supports external digital monitor via HDMI or USB Type-C
- supports three independent displays
- Max resolution: 3840x2160@60Hz (USB Type-C); 3840x2160@30Hz (HDMI)

### Chipset

- Intel SoC (System on Chip) platform

### Memory

- 16GB max / 2400MHz DDR4, one DDR4 SO-DIMM socket

### Display

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Surface</th>
<th>Type</th>
<th>Brightness</th>
<th>Aspect Ratio</th>
<th>Contrast Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.0&quot; FHD</td>
<td>1920x1080</td>
<td>Anti-glare</td>
<td>IPS</td>
<td>250 nits</td>
<td>16:9</td>
<td>800:1</td>
</tr>
<tr>
<td>14.0&quot; FHD</td>
<td>1920x1080</td>
<td>Anti-glare</td>
<td>TN</td>
<td>220 nits</td>
<td>16:9</td>
<td>800:1</td>
</tr>
</tbody>
</table>

### Multi-touch

- None

### Storage

- One of the following, configurable by model:
  - M.2 SSD / SATA 6.0Gb/s
  - M.2 (2242) SSD / PCIe NVMe, PCIe 3.0 x 2
  - M.2 (2280) SSD / PCIe NVMe, PCIe 3.0 x 4
  - Intel Optane™ Memory H10 with SSD, M.2 2280, PCie NVMe 3.0 x 4
  - None

### Optical

- None

### Ethernet

- Gigabit Ethernet connection via optional Lenovo USB-C to Ethernet Adapter

### WLAN

- Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card
- Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

### Bluetooth

- Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card
- Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

### Dimensions

- WxDxH: 12.70” x 8.77” x 0.65”; 322.5mm x 222.8mm x 16.5mm
- Weight: 3.28 lb / 1.49 kg
- Case color: Mineral Grey
- Case material: Aluminum

### Media reader

- None
- Two USB 3.1 Gen 1 (one with Always On), One USB-C 3.1 Gen 2 (with the function of DisplayPort), HDMI 1.4b, headphone / microphone combo jack, AC power adapter jack

### Camera

- HD720p camera, fixed focus, ThinkShutter
- HD Audio, Realtek ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ X3, dual array integrated digital microphone, microphone subsystem optimized for voice recognition

### Audio support

- HD Audio, Realtek ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ X3, dual array integrated digital microphone, microphone subsystem optimized for voice recognition

### Keyboard

- 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

### Trackpad

- Buttonless Mylar surface touchpad, multi-touch

### Security

- Power-on password, hard disk password, supervisor password, FIDO® (Fast Identity Online)
- Security chip: Discrete TPM 2.0, TCG Certified
- Fingerprint reader: Optional Touch style fingerprint reader on power button

### Battery

- Integrated Li-ion 45Wh battery, supports Rapid Charge (quick charge 30min 50% / 2hr 100%)
- Max battery life: MobileMark® 2014: 11 hr
- Battery life varies significantly with settings, usage, & other factors

### AC adapter

- 65W slim tip AC adapter

### Preload (optional)

- Preloaded operating system:
  - Windows® 10 Home 64
  - Windows 10 Pro 64
  - Preloaded applications (only some listed)
    - Microsoft Office 365 Home
    - Microsoft Office 365 Personal
    - Microsoft Office Home and Business 2019
    - Microsoft Office Home and Student 2019
    - Microsoft Office Trial (with 30-day license)

### Preloaded applications (only some listed)

- Microsoft Office 365 Home
- Microsoft Office 365 Personal
- Microsoft Office Home and Business 2019
- Microsoft Office Home and Student 2019
- Microsoft Office Trial (with 30-day license)

### Limited warranty

- One of the following, configurable by model:
  - 1-year depot repair service
  - 1-year/2-yr system board depot repair service

### Environment

- ENERGY STAR® 7.0; RoHS-compliant

Note: The specifications above may not be available in all regions.
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Included software: may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

Battery life: Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.


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Lenovo 1009 Think Place Morrisville, NC 27560 U.S.A.