





# Surface Laptop 6

## PROCESSOR

Intel® Core™ Ultra 5 processor 135H  
Intel® Core™ Ultra 7 processor 165H  
NPU: Intel® AI Boost

## MEMORY AND STORAGE<sup>1</sup>

Memory options:  
8GB LPDDR5 RAM, 16GB, 32GB or 64GB LPDDR5x RAM

Storage options:  
Removable<sup>2</sup> solid-state drive (Gen 4 SSD): 256GB, 512GB, 1TB

## SECURITY

Hardware TPM 2.0 chip for enterprise-grade security and BitLocker support  
Windows Hello facial recognition with Enhanced Sign-in Security  
Integrated smart card reader authentication (available on select models and markets)<sup>3</sup>  
Windows 11 Secured-core PC

## PORTS AND CHARGING

**Surface Laptop 6 13.5":**  
USB-C\* with USB4<sup>†</sup>/Thunderbolt™ 4 with support for:  
Charging  
Data transfer  
DisplayPort 2.1 with support up to 1 x 8K monitor\*  
Supports fast charging with minimum 45W power supply via Surface Connect or USB-C  
USB-A 3.1  
3.5 mm headset jack  
Surface Connect port

**Surface Laptop 6 15":**  
2 x USB-C\* with USB4<sup>†</sup>/Thunderbolt™ 4 with support for:  
Charging  
Data transfer  
DisplayPort 2.1 with support up to 1 x 8K monitor\*  
Supports fast charging with minimum 45W power supply via Surface Connect or USB-C  
USB-A 3.1  
3.5 mm headset jack  
Surface Connect port  
Integrated smart card reader (available on select models and markets)<sup>3</sup>

## BATTERY LIFE<sup>5</sup>

**Surface Laptop 6 13.5":**  
Up to 18.5 hours of typical device usage<sup>6</sup>

**Surface Laptop 6 15":**  
Up to 19 hours of typical device usage<sup>7</sup>

## CAMERAS

Full HD front-facing Surface Studio Camera  
1080p Full HD camera  
Windows Studio Effects with automatic framing, eye contact and background blur  
Windows Hello face authentication camera

## SIZE AND WEIGHT<sup>8</sup>

**Surface Laptop 6 13.5":**  
Length: 12.1 inch (308 mm)  
Width: 8.8 inch (223 mm)  
Height: 0.66 inch (16.7 mm)  
Weight: 3.06 lbs (1.38 kg)

**Surface Laptop 6 15":**  
Length: 13.4 inch (340 mm)  
Width: 9.6 inch (244 mm)  
Height: 0.67 inch (16.9 mm)  
Weight: 3.70 lbs (1.68 kg)  
With smart card reader: 3.71 lbs (1.68 kg)

## SOFTWARE

Windows 11 Pro or Windows 10 Pro<sup>9</sup>  
Preloaded Microsoft 365 Apps<sup>10</sup>  
Microsoft 365 Business Standard, Microsoft 365 Business Premium, or Microsoft 365 Apps 30-day trial<sup>11</sup>

## KEYBOARD LAYOUT

Activation: Moving keys  
Layout: QWERTY, full row of function keys (F1–F12)  
Windows key and dedicated buttons for media controls, screen brightness  
Keyboard backlight  
Copilot key<sup>12</sup>  
Touchpad

## AUDIO

Dual Studio Mics with voice focus<sup>13</sup>  
Omnisonic<sup>†</sup> Speakers with Dolby<sup>®</sup> Atmos<sup>™</sup> 14  
Support for Bluetooth<sup>®</sup> LE Audio

## DISPLAY

**Surface Laptop 6 13.5":**  
Touchscreen: 13.5" PixelSense™ Display  
Resolution: 2256 x 1504 (201 PPI)  
Aspect ratio: 3:2  
Contrast ratio: 1300:1  
Color profile: sRGB, and Enhanced  
Individually color-calibrated display  
Adaptive color  
Touch: 10-point multi-touch  
Dolby Vision IQ™<sup>15</sup> support  
Resolution: 2256 x 1504 (201 PPI)  
Aspect ratio: 3:2  
Contrast ratio: 1300:1  
Color profile: sRGB, and Enhanced  
Individually color-calibrated display  
Adaptive color  
Touch: 10-point multi-touch  
Dolby Vision IQ™<sup>15</sup> support  
Corning<sup>®</sup> Gorilla<sup>®</sup> Glass 5  
Anti-reflective  
Brightness: SDR 400 nits maximum (typical)

**Surface Laptop 6 15":**  
Touchscreen: 15" PixelSense™ Display  
Resolution: 2496 x 1664 (201 PPI)  
Aspect ratio: 3:2  
Contrast ratio: 1300:1  
Color profile: sRGB, and Enhanced  
Individually color-calibrated display  
Adaptive color  
Touch: 10-point multi-touch  
Dolby Vision IQ™<sup>15</sup> support  
Corning<sup>®</sup> Gorilla<sup>®</sup> Glass 5  
Anti-reflective  
Brightness: SDR 400 nits maximum (typical)

## SERVICEABILITY

Replacement components:<sup>16</sup>

- Display assembly (including camera)
- Keyboard assembly
- Removable solid-state drive
- Battery
- Motherboard module (main processor and main memory)
- Surface Connect
- Thermal module
- Audio jack
- Speakers
- Touchpad
- Enclosure
- Feet

## ACCESSIBILITY

Compatible with Surface Adaptive Kit  
Includes with Microsoft Adaptive Accessories  
Discover more Microsoft Accessible Devices & Products – [Accessibility Features | Microsoft Accessibility](#)  
Discover more Microsoft Accessible Devices & Products – [Accessible Devices & Products for PC & Gaming | Assistive Tech Accessories - Microsoft Store](#)

## SENSORS

Ambient light sensor

## WHAT'S IN THE BOX

Surface Laptop 6 13.5" or 15"  
Power Supply:  
13.5": 39W  
15": 65W  
Quick Start Guide  
Safety and warranty documents

## BATTERY CAPACITIES<sup>7</sup>

Battery Capacity Nominal (Wh) 47  
Battery Capacity Min (Wh) 46

## EXTERIOR

Casing: Anodized aluminum  
Colors:<sup>17</sup> Platinum or Black

## SUSTAINABILITY

**More recycled materials**  
Enclosure is made with a minimum of 25.8% recycled content, including 100% recycled aluminum alloy and 100% recycled rare earth metals<sup>18</sup>

**More energy efficient**  
ENERGY STAR<sup>®</sup> certified

## More repairable

More replaceable components than Surface Laptop 5. Built-in QR code provides convenient access to instructions.<sup>19</sup>

## Surface Trade-In

We make trade-in convenient and secure for our commercial customers in the USA at [Microsoft Trade In Program](#)

Microsoft is committed to be carbon negative, water positive, and achieve zero waste by 2030. Learn more about how we design with sustainability in mind: [Sustainable Products & Solutions | Microsoft CSR](#)  
[Microsoft Surface Sustainability - Microsoft Sustainability](#)

## WARRANTY<sup>9</sup>

1-year limited hardware warranty

## PEN AND ACCESSORIES COMPATIBILITY

Supports Microsoft Pen Protocol (MPP)

## NETWORK AND CONNECTIVITY

Wi-Fi 6E, 802.11ax compatible<sup>20</sup>  
Bluetooth<sup>®</sup> Wireless 5.3 technology

## GRAPHICS

16GB memory: Intel<sup>®</sup> Graphics  
8GB, 32GB or 64GB memory: Intel<sup>®</sup> Arc<sup>™</sup> Graphics

<sup>1</sup>See [www.microsoft.com](#) for details on cables that support DisplayPort 2.1. <sup>2</sup>System software uses significant storage space. Available storage is subject to change based on system software updates and apps usage. USB = 1 billion bytes, TB = 1,000 GB. [Surface.com/Storage](#) for more details. <sup>3</sup>Solid State Drive (SSD) Retention is only available on Microsoft Surface devices in which the SSD is marketed as removable per the Technical Specifications. Solid State Drive (SSD) Retention is included in both Extended Hardware Service Plus and Microsoft Complete for Business Plus and is also available as an Optional Add-on when purchasing Microsoft Extended Hardware Service and Microsoft Complete for Business Plus. <sup>4</sup>Surface Laptop 6 13.5" and only in US and Canada. <sup>5</sup>Battery life varies significantly based on usage, network and feature configuration, signal strength, settings and other factors. See [www.microsoft.com/surface/laptop6](#) for details. <sup>6</sup>13.5" Surface Laptop 6 comes with 39 W Surface power supply. Fast charging from 5% to 80% is supported with minimum 45W Surface power supply or USB-C PD charger (sold separately). Testing not conducted at Microsoft in February 2024, using pre-production devices, software, and minimum of 45W USB-C charger under controlled conditions. The device was powered on to the desktop screen with default display brightness settings. Actual charge time will vary based on operating conditions. Measured at typical office ambient temperature of 23°C. <sup>7</sup>Battery life varies significantly based on usage, network and feature configuration, signal strength, settings and other factors. See [www.microsoft.com/surface/laptop6](#) for details. <sup>8</sup>Up to 18.5 hours of Battery life based on typical Surface device usage on Surface Laptop 6 13.5". Testing conducted by Microsoft in February 2024 using pre-production Windows 11 software and preproduction Surface Laptop 6 13.5" Core™ Ultra 5 processor. 150W 256GB SSD, 16GB RAM. Testing consisted of full battery discharge with a mixture of active use and modern standby. The active use portion consisted of 17% web browsing, 8% document editing, 8% media playback over multiple open tabs, 20 a productivity test utilizing Microsoft Word, PowerPoint, Excel, Outlook and Outlook, and (3) a portion of time with the device in use with file applications. Personalization colors set to Light mode for Windows and apps. All apps were default except screen brightness was set to 150 nits with auto-brightness and adaptive color disabled. Wi-Fi was connected to a network. Tested with Windows 11 Version 22H2.3085. Battery life varies significantly with settings, usage, and other factors. <sup>9</sup>Up to 19 hours of battery life based on typical Surface device usage on Surface Laptop 6 15". Testing conducted by Microsoft in February 2024 using preproduction Windows 11 software and preproduction Surface Laptop 6 15" Core™ Ultra 7 processor. 150W 512GB SSD, 16GB RAM. Testing consisted of full battery discharge with a mixture of active use and modern standby. The active use portion consisted of 17% web browsing, 8% document editing, 8% media playback over multiple open tabs, 20 a productivity test utilizing Microsoft Word, PowerPoint, Excel, Outlook and Outlook, and (3) a portion of time with the device in use with file applications. Personalization colors set to Light mode for Windows and apps. All settings were default except screen brightness was set to 150 nits with auto-brightness and adaptive color disabled. Wi-Fi was connected to a network. Tested with Windows 11 Version 22H2.3085. Battery life varies significantly with settings, usage, and other factors. <sup>10</sup>Availability may vary by product, market and over time. See [Surface.com/office](#). <sup>11</sup>Requires Office 365 subscription. See [www.microsoft.com/office/365](#) for more information. <sup>12</sup>Not available on all devices. <sup>13</sup>Activation required. <sup>14</sup>Activation required. <sup>15</sup> Dolby Vision is not available or enabled on the device, pressing the Copilot key will launch Windows Search. <sup>16</sup>Price focus requires activation. Windows 11 and is available in apps which use integrated device microphones, and use certain Windows audio processing modes. <sup>17</sup>Requires Dolby Atmos encoded content/audio. <sup>18</sup>Requires Dolby Vision™ encoded content and video. <sup>19</sup>Replacement components available through Surface Commercial authorized device resellers. Components can be replaced on-site by a third party technician following Microsoft's Service Guide. Microsoft tools (sold separately) may also be required. Availability of replacement components and service options may vary by product, market and over time. See [Surface.com/office](#). <sup>20</sup>Surface Laptop 6 13.5" and 15" are available in apps which use integrated device microphones, and use certain Windows audio processing modes. <sup>21</sup>Requires Dolby Atmos encoded content/audio. <sup>22</sup>Requires Dolby Vision™ encoded content and video. <sup>23</sup>Replacement components available through Surface Commercial authorized device resellers. Components can be replaced on-site by a third party technician following Microsoft's Service Guide. Microsoft tools (sold separately) may also be required. Availability of replacement components and service options may vary by product, market and over time. See [Surface.com/office](#). <sup>24</sup>Opening and repairing your device can present electric shock, fire and personal injury risks and other hazards. Use caution if undertaking do-it-yourself repairs. <sup>25</sup>Items required by law, device damage caused during repair will not be covered under Microsoft's Hardware Warranty or protection plans. <sup>26</sup>Colors available on selected models only. Available colors, size, finishes, and processors may vary by device, market, and configuration. <sup>27</sup>Enclosure includes A Cover, C Cover and D Cover. <sup>28</sup>100% recycled rare earth metals in magnets. Based on validation performed by Underwriter Laboratories, Inc. using Environmental Claim Validation Procedure for Recycled Content, UL 2809-2, Second Edition, November 7, 2023. <sup>29</sup>Microsoft's Limited Warranty is in addition to your consumer law rights. <sup>30</sup>Wi-Fi 6E is not available in all areas.