



Microsoft Surface Notebook 13.5 Inch Touch Screen 8GB Memory 256GB SSD Intel Core i5 Laptop User Guide

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INTRODUCTION

Power and design in an AI PC, built for business workloads

Surface Laptop 6 elevates business with an elite level of performance, power, and sleek design. Built for demanding workloads, Surface Laptop 6 unleashes a new era of productivity through the power of the Intel® Core Ultra processor H-series. With Surface Laptop, employees get the benefits of an AI PC that accelerates Microsoft Copilot* experiences and offers integrated AI engines that enable the next wave of business features.



Relentless power for demanding workloads

Fuel productivity through a full workday with power and performance designed to keep pace with business.

A sleek and durable Microsoft design

Surface Laptop 6 will surpass expectations: meticulously crafted, designed for longevity, and featuring collaborative tools and AI-driven features.

Productivity realized with Microsoft Copilot*

Experience Microsoft Copilot* in ways only Surface can create, with detailed support for inclusive styles of work.

Multi-layered security and manageability

Windows 11's industry-leading security safeguards sensitive data, and remote management provides protection at every layer—hardware, firmware, application, cloud, and identity.

PRODUCT DESCRIPTION



*Copilot for Microsoft 365 sold separately and requires a qualifying volume license or subscription. Microsoft Copilot for Microsoft 365 | Microsoft 365. 1Battery life varies significantly based on usage, network and feature configuration, signal strength, settings and other factors. See aka.ms/SurfaceBatteryPerformance for details. 213.5" Surface Briggs 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 was 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 23C. 3Based on 3DMark TimeSpy benchmark measuring graphic performance compared to Surface Laptop 5. 4Integrated smart card reader available only on Surface Laptop 6 in Black in one of these configurations: 15" 5/16/512, 7/16/256, 7/16/512, 7/32/512 and only in US and Canada. 5Replacement components are available through Surface Commercial authorized device resellers. Components can be replaced on-site by a skilled 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 service options – Surface | Microsoft Learn]. Opening and/or repairing your device can present electric shock, fire and personal injury risks and other hazards. Use caution if undertaking do-it-yourself repairs. Unless required by law, device damage caused during repair will not be covered under Microsoft's Hardware Warranty or protection plans. 6Requires Dolby® Atmos® encoded content/audio. 7Voice focus requires activation, Windows 11 and is available in apps which use integrated device microphones and use certain Windows audio processing modes.

PROCESSOR

Intel® Core Ultra 5 processor 135H

Intel® Core Ultra 7 processor 165H

NPU: Intel® AI Boost

MEMORY AND STORAGE¹

Memory options:

8GB LPDDR5 RAM, 16GB, 32GB or 64GB LPDDR5x RAM

Storage options:

Removable2 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)³

Windows 11 Secured-core PC

PORTS AND CHARGING

Surface Laptop 6 13.5”:

USB-C® with USB4®/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-C4

USB-A 3.1

3.5 mm headset jack Surface Connect port

Surface Laptop 6 15”:

2 x USB-C® with USB4®/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-C4

USB-A 3.1

3.5 mm headset jack

Surface Connect port

Integrated smart card reader (available on select models and markets)³

BATTERY LIFE⁵

Surface Laptop 6 13.5”:

Up to 18.5 hours of typical device usage⁶

Surface Laptop 6 15”:

Up to 19 hours of typical device usage⁷

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 WEIGHT⁸

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 3.71 lbs (1.68 kg)

SOFTWARE

Windows 11 Pro or Windows 10 Pro⁹

Preloaded Microsoft 365 Apps¹⁰

Microsoft 365 Business Standard, Microsoft 365 Business Premium, or Microsoft 365 Apps 30-day trial¹¹

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 key¹²

Touchpad

AUDIO

Dual Studio Mics with voice focus¹³

Omnisonic® Speakers with Dolby® Atmos®¹⁴

Support for Bluetooth® 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 15 support Corning® Gorilla® 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 15 support Corning® Gorilla® Glass 5 Anti-reflective

Brightness: SDR 400 nits maximum (typical)

SERVICEABILITY

Replacement components:

- Display assembly (including camera)¹⁶
- 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

Compatible with Microsoft Adaptive Accessories Includes Windows Accessibility Features – learn more

[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^{6,7}

Battery Capacity Nominal (WH) ⁴⁷

Battery Capacity Min (WH) ⁴⁶

EXTERIOR

Casing: Anodized aluminum

Colors: 17 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 metals¹⁸

More energy efficient

ENERGY STAR® certified

More repairable

More replaceable components than Surface Laptop 5. Built in QR code provides convenient access to instructions.¹⁶

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](#)

WARRANTY¹⁹

1-year limited hardware warranty

PEN AND ACCESSORIES COMPATIBILITY

Supports Microsoft Pen Protocol (MPP)

NETWORK AND CONNECTIVITY

Wi-Fi 6E: 802.11ax compatible²⁰

Bluetooth® Wireless 5.3 technology

GRAPHICS


8GB memory: Intel® Graphics

16GB, 32GB or 64GB memory: Intel® Arc Graphics













*See www.displayport.org for details on cables that support DisplayPort 2.1. 1System System software uses significant storage space. Available storage is subject to change based on system software updates and apps usage. 1GB = 1 billion bytes. 1TB = 1,000 GB. Surface.com/Storage more details. 2Solid 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. Devices returned to Microsoft with a missing Solid State Drive (SSD) are subject to a Solid State Drive (SSD) replacement fee unless the device is enrolled in the Drive (SSD) Retention offer. 3 Integrated smart card reader available only on Surface Laptop 6 in Black in one of these configurations: 15" 5/16/512, 7/16/256, 7/16/512, 7/32/512 and only in US and Canada. 4Battery life varies significantly based on usage, network and feature configuration, signal strength, settings and other factors. See aka.ms/SurfaceBatteryPerformance for details. 413.5" 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 was 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 23C. 5Battery life varies significantly based on usage, network and feature configuration, signal strength, settings and other factors. See

aka.ms/SurfaceBatteryPerformance for details. ⁶Up to 18.5 hours of battery life based on typical Surface device usage on Surface Laptop 6 13.8": Testing conducted by Microsoft in February 2024 using preproduction Windows 11 software and preproduction Surface Briggs Intel® Core Ultra 7 processor 165H 256GB SSD, 16GB RAM. Testing consisted of full battery discharge with a mixture of active use and modern standby. The active use portion consists of (1) a web browsing test accessing eight popular websites over multiple open tabs, (2) a productivity test utilizing Microsoft Word, PowerPoint, Excel, OneNote and Outlook, and (3) a portion of time with the device in use with idle 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. Battery life varies significantly with settings, usage, and other factors. ⁷Up 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 Briggs Intel® Core Ultra 7 processor 165H 512GB SSD, 16GB RAM. Testing consisted of full battery discharge with a mixture of active use and modern standby. The active use portion consists of (1) a web browsing test accessing eight popular websites over multiple open tabs, (2) a productivity test utilizing Microsoft Word, PowerPoint, Excel, OneNote and Outlook, and (3) a portion of time with the device in use with idle 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. Battery life varies significantly with settings, usage, and other factors. ⁸Might vary depending on manufacturing processes. ⁹Windows 10 is not available for purchase but is supported by Surface Laptop 6. Visit <https://aka.ms/SurfaceSupportedOperatingSystems> for more information. ¹⁰Sold separately. Software license required for some features. ¹¹Activation required. If your device is managed by your organization's IT department, contact your IT administrator for activation. If you activate your trial outside your organization, after 30 days, you will be charged the applicable monthly or annual subscription fee. Credit card required. Cancel any time to stop future charges. See <https://aka.ms/m365businesstrialinfo>. ¹²Feature availability varies by market, see aka.ms/WindowsAIFeatures – When Copilot for Windows is not available or enabled on the device, pressing the Copilot key will launch Windows Search. ¹³Voice focus requires activation, Windows ¹¹and is available in apps which use integrated device microphones and use certain Windows audio processing modes. ¹⁴Requires Dolby® Atmos® encoded content/audio. ¹⁵Requires Dolby Vision® encoded content and video. ¹⁶Replacement components available through Surface Commercial authorized device resellers. Components can be replaced on-site by a skilled 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 service options – Surface | Microsoft Learn]. Opening and/or repairing your device can present electric shock, fire and personal injury risks and other hazards. Use caution if undertaking do-it-yourself repairs. Unless required by law, device damage caused during repair will not be covered under Microsoft's Hardware Warranty or protection plans. ¹⁷Colors available on selected models only. Available colors, sizes, finishes, and processors may vary by store, market, and configuration. ¹⁸Enclosure includes A Cover, C Cover and D Bucket. 100% recycled aluminum alloy in A Cover. 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. ¹⁹Microsoft's Limited Warranty is in addition to your consumer law rights. ²⁰WiFi 6E is not available in all areas.



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References

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-  [Copilot in Windows & Other AI-Powered Features | Microsoft](#)
-  [Surface storage options and hard drive sizes - Microsoft Support](#)
-  [DisplayPort | High Performance Digital Technology](#)
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