Surface Laptop 5

Fact Sheet
October 2022



Meet Surface Laptop 5, blazing speed, sophisticated style.
Multitasking speed powered by 12th Gen Intel® Core™ built on the Intel® Evo™ platform, with Windows 11 and a vibrant PixelSense™ touchscreen. Sleek and beautiful, in choice of size — 13.5" or 15" touchscreen — and colors from bold to subtle, including new Sage.[1] Plus, battery life[5] for real life to do your thing your way, all day. Surface Laptop 5 gives you the perfect balance to do it all on your terms and make an impact.

Laptop 5 is supercharged, impactful and sophistically designed to elevate your experiences.

Top Features and Benefits

- **Do it all, all at the same time.** Microsoft Teams calls, clearing your inbox, editing presentations, and more. Surface Laptop 5 is made for snappy multitasking across multiple tabs and apps, now built on the Intel® Evo™ platform featuring 12th Gen Intel® Core™ processors – delivering superior performance where you need it most. Power through local games, creative apps, or stay on top of work with professional software.
- **The size you want, the material and colors you crave.** 13.5" PixelSense™ touchscreen for ultra-portable productivity, or larger 15" for split-screen multitasking. In warm, sophisticated Alcantara® or edgy, cool metal, and bold colors including new Sage[1].
- **One high-speed connection, two HD screens, all charged and ready to go**. Lightning-fast Thunderbolt™ 4 connects a 4K monitor, charges your laptop, and delivers faster data transfer for large video files.
- **Battery life for real life.** Unplug whenever and wherever you want to stream a show, play a game, or meet a deadline with up to 17 hours of battery.[5]
- **Enjoy face-to-face calls that keep you in focus.** Enhanced camera experiences, powered by new Windows 11 interactive features, automatically adjust to lighting conditions, skin tones, and subtle changes in your head and face position. **Be heard loud and clear on calls** with dual far-field Studio Mics.

- **Take your entertainment to new heights** when you stream your favorite shows and movies with ultra-vivid color and exceptional picture quality with Dolby Vision IQ™[3] and cinematic sound that surrounds you powered by Dolby Atmos®.[6]
- **Get productive your way** with Windows 11 and Microsoft 365 new smart features that help you get things done. With built-in protection at every layer, Surface Laptop 5 with Windows 11 gives you peace of mind to focus on doing what you love. Sign in securely with Windows Hello. Create and save Microsoft 365 files[12]12 or play a favorite Xbox game in the cloud.[9]

Technical Specifications

Operating system	Surface Laptop 5: Windows 11 Home Surface Laptop 5 for Business: Windows 10 Pro or Windows 11 Pro
Exterior	**Surface Laptop 5 13.5":** 12.1 inch (308 mm) X 8.8 inch (223 mm) X .57 inch (14.5 mm) **Weight:** Fabric 2.80 lbs (1,272 g) or Metal 2.86 lbs (1,297 g) **Surface Laptop 5 15":** 13.4 inch (340 mm) X 9.6 inch (244 mm) X .58 inch (14.7 mm) **Weight:** 3.44 lbs (1,560 g) Colors: **Surface Laptop 5 13.5" colors[1]:** Platinum with Alcantara® , Sage, Matte Black, and Sandstone **Surface Laptop 5 15" colors:[1]** Platinum and Matte Black
Display	**Surface Laptop 5 13.5":** • Screen: 13.5" PixelSense™ Display • Resolution: 2256 x 1504 (201 PPI) • Dolby Vision IQ™[2] support • Touch: 10-point multi-touch **Surface Laptop 5 15":** • Screen: 15" PixelSense™ Display • Resolution: 2496 x 1664 (201 PPI) • Dolby Vision IQ ™[2] support • Touch: 10-point multi-touch
CPU	**Consumer** **Surface Laptop 5 13.5"** 12th Gen Intel® Core™ i5-1235U processor 12th Gen Intel® Core™ i7-1255U processor All SKUs are built on the Intel® Evo™ platform **Surface Laptop 5 15"** 12th Gen Intel® Core™ i7-1255U processor All SKUs are built on the Intel® Evo™ platform

	Commercial **Surface Laptop 5 13.5"** 12th Gen Intel® Core™ i5-1245U processor 12th Gen Intel® Core™ i7-1265U processor All SKUs are built on the Intel® Evo™ platform **Surface Laptop 5 15"** 12th Gen Intel® Core™ i7-1265U processor All SKUs are built on the Intel® Evo™ platform
Graphics	Intel® Iris® Xe Graphics
Memory	8GB, 16GB, or 32GB LPDDR5x RAM
Storage[3]	Removable[4] solid-state drive (SSD) options: 256GB, 512GB, or 1TB
Security	**Commercial** • TPM 2.0 chip for enterprise-grade security and BitLocker support • Enterprise-grade protection with Windows Hello face sign-in • Windows 11 Secured-core PC **Consumer** • Firmware TPM 2.0 is a security processor that is designed to give you peace of mind. • Windows Hello face sign-in • Windows 11 Secured-core PC
Network and connectivity	Wi-Fi 6: 802.11ax compatible Bluetooth® Wireless 5.1 technology
Battery Life[5]	**Surface Laptop 5 13.5"** Up to 18 hours of typical device usage **Surface Laptop 5 15"** Up to 17 hours of typical device usage
Cameras	Windows Hello Face Authentication camera 720p HD front facing camera
Audio	Dual far-field Studio Mics Omnisonic® Speakers with Dolby® Atmos®[6]
Ports	1 x USB-C® with USB 4.0/Thunderbolt™ 4 1 x USB-A 3.1 3.5 mm headphone jack 1 x Surface Connect port
Sensors	Ambient light sensor
Software	**Consumer** Windows 11 Home Preloaded Microsoft 365 Apps[7]

	Microsoft 365 Family 30-day trial[8] Xbox Game Pass Ultimate 30-day trial[9] [Guidance: Do not publish Game Pass in China-not available in this market. Also do not publish in markets that do not have cloud gaming.] **Commercial** Windows 11 Pro or Windows 10 Pro Preloaded Microsoft 365 Apps[10] Microsoft 365 Business Standard, Microsoft 365 Business Premium, or Microsoft 365 Apps 30-day trial[11]
Power Supply	60W power supply with additional 5W USB A charging Port
In the Box	Surface Laptop 5 13.5" and 15": Power Supply Quick Start Guide Safety and warranty documents
Pen & accessories compatibility	Designed for Surface Pen[12] Supports Microsoft Pen Protocol (MPP)
Serviceability (commercial only)[4]	Replaceable components include: • SSD • Display and Display Enclosure (AB Cover module) • Palm Rest and Keyboard Cover • Battery with Bottom Enclosure • Motherboard • Charging Port (Surface Connector) • Thermal Module • Thermal pad and Desense tape • Feet
Warranty[13]	1-year limited hardware warranty

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Contact Information

For more information, press only:
Rapid Response Team, WE Communications, (425) 638-7777, rrt@we-worldwide.com

For more product information and images:
Visit the Surface Newsroom at https://news.microsoft.com/presskits/surface/.

For more information about Surface:
Visit Surface at http://www.microsoft.com/surface.

[1] Colors available on selected models only. Available colors, sizes, finishes, and processors may vary by store, market, and configuration.
[2] Requires Dolby Vision® encoded content and video.
[3] System software uses significant storage space. Available storage is subject to change based on system software updates and apps usage. 1 GB = 1 billion bytes. 1 TB = 1,000 GB. See Surface.com/Storage for more details.
[4] Customer Replaceable Units (CRUs) are components available for purchase through your Surface Commercial Authorized Device Reseller. Components can be replaced on-site by a skilled technician following Microsoft's Service Guide. 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. Device damage caused during repair will not be covered under Microsoft's Hardware Warranty or protection plans. Components will be available shortly after initial launch; timing of availability varies by component and market.
[5] Battery life varies significantly based on device configuration, usage, network and feature configuration, signal strength, settings and other factors. See aka.ms/SurfaceBatteryPerformance for details.
[FOR OFFLINE & TECH SPEC]
Up to 18 hours of battery life based on typical Surface device usage on Surface Laptop 5 13.5"
Testing conducted by Microsoft in August 2022 using preproduction software and preproduction 13.5" Intel® Core™ i5, 256GB, 8GB RAM device. 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. All settings were default except screen brightness was set to 150 nits with Auto-Brightness disabled. Wi-Fi was connected to a network. Tested with Windows Version 11.0.22621 (21H2). Battery life varies significantly with settings, usage and other factors.
Up to 17 hours of battery life based on typical Surface device usage on Surface Laptop 5 15"
Testing conducted by Microsoft in August 2022 using preproduction software and preproduction 15" Intel® Core™ i7, 256GB, 8GB RAM device. 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. All settings were default except screen brightness was set to 150 nits with Auto-Brightness disabled. Wi-Fi was connected to a network. Tested with Windows Version 11.0.22621 (21H2). Battery life varies significantly with settings, usage and other factors.
[6] Requires Dolby® Atmos® encoded content/audio.
[7] [**Consumer]** Requires license or subscription (sold separately) to activate and use.
[8] [**Consumer]** Activation required. 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 Free Trial - Try Microsoft 365 for a month - Microsoft Store.

[9] Activation required for Xbox Game Pass Ultimate. Xbox Game Pass ultimate 30 day trial accessible through Xbox.com/Play. You can use it to play games on Xbox One and Xbox Series Consoles, and stream select games where available to Surface Hillcrest through Xbox.com/Play and other supported devices. Not currently available in China.

[10] **[Commercial]** Sold separately. Software license required for some features. (Japan versions are pre-installed. Not a trial. Need to call it out in OS.)

[11] [**Commercial**] Activation 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. (Japan versions are pre-installed. Not a trial. Need to call it out in OS.)
[12] Sold separately
[13] Microsoft's Limited Warranty is in addition to your consumer law rights.