



Surface Book 2

Fact Sheet
October 2017

Introducing Surface Book 2, the most powerful Surface yet. It's designed to deliver the ultimate in performance and versatility without compromise, featuring the latest Intel® Dual-Core™ or Quad-Core™ processors, NVIDIA® GeForce® GPUs, and up to 17 hours of battery life.¹ Now available in 13.5-inch and new 15-inch models, Surface Book 2 has up to five times more graphics performance than the original and is twice as powerful as the MacBook Pro.² With a stunning PixelSense™ Display, Surface Book 2 gives you the power of a laptop, the versatility of a tablet and the freedom of a portable studio all in one beautifully styled device. Move seamlessly between professional apps from companies such as Adobe, Autodesk, Dassault and Unity, play popular PC games or immerse yourself in Windows Mixed Reality. Every detail of the iconic Surface Book design has been refined, from the dynamic fulcrum hinge for a more stable touch experience, to the improved, backlit keyboard and flexibility of both USB Type-A and USB Type-C ports.

Top Features and Benefits

- **Built for performance.** With Surface Book 2, you can seamlessly transition between professional-grade software and the latest PC games. Breeze through any task with lightning-fast storage and the latest dual- or quad-core Intel® Core™ i5 and i7 processors, and experience the best graphics performance yet with the latest NVIDIA® GeForce® GPUs. Surface Book 2 delivers up to 17 hours of battery life¹ with the 15" version delivering up to 5 times more graphics performance than the original Surface Book.
- **Adapts to the ways you create.** Surface Book 2 is a robust laptop, powerful tablet and portable studio that adapts to the ways you work and create best. Whether you're designing 3-D models

with CAD, sketching with Surface Pen, or editing 4K video on an external monitor, Surface Book 2 has four versatile modes of use to help you find your breakthrough. The versatility doesn't stop there — Surface Book 2 connects to all your devices: hook up to USB Type-C and USB Type-A ports, as well as your full-size SD card, Surface Dial and Surface Dock.

- Designed with innovation in every detail.** Surface Book 2 balances performance with premium, lightweight materials for unprecedented power in a laptop its size. Choose from a 13.5- or 15-inch touchscreen and immerse yourself in experiences that look and feel like real life on a stunning PixelSense™ Display. The backlit keyboard lets you get your ideas down faster and more confidently with the fastest, most comfortable Surface Book typing experience yet.
- Powers the best of Microsoft.** Surface Book 2 lets you work, play and create without limits. Work seamlessly with your favorite Microsoft Office apps and add 3-D content to increase the impact of your content. Play the latest PC games and pair your Xbox Wireless controller and compatible headset, no dongle required (15" models only). Get immersed in VR games and content with Windows Mixed Reality Ultra experiences. When only a pen will help you express your idea, grab Surface Pen to naturally sketch, paint and draw, and use Surface Dial for easy, on-screen access to tools.

Technical Specifications

	Surface Book 2 13"	Surface Book 2 15"
Display	13.5" PixelSense™ Display 3000 x 2000 (267 PPI) 1600:1 contrast ratio 10 point multitouch Compatible with next-generation Surface Pen and Surface Dial on-screen interaction	15" PixelSense™ Display 3240 x 2160 (260 PPI) 1600:1 contrast ratio 10 point multitouch Compatible with next-generation Surface Pen and Surface Dial on-screen interaction
Available Models	8th gen Intel® Quad-Core™ processor Intel® Core™ i7-8650U w/ 4.2GHz Max Turbo, 8GB RAM and 256GB PCIe SSD Intel® Core™ i7-8650U w/ 4.2GHz Max Turbo, 16GB RAM and 512GB PCIe SSD Intel® Core™ i7-8650U w/ 4.2GHz Max Turbo, 16GB RAM and 1TB PCIe SSD 7th gen Intel® Dual Core™ processor Intel® Core™ i5-7300U w/ 3.2GHz Max Turbo, 8GB RAM and 256GB PCIe SSD	8th gen Intel® Quad-Core™ processor: Intel® Core™ i7-8650U w/ 4.2GHz Max Turbo, 16GB RAM and 256GB PCIe SSD Intel® Core™ i7-8650U w/ 4.2GHz Max Turbo, 16GB RAM and 512GB PCIe SSD Intel® Core™ i7-8650U w/ 4.2GHz Max Turbo, 16GB RAM and 1TB PCIe SSD
Graphics	Intel Core™ i5 Intel® HD Graphics 620 integrated GPU Intel Core™ i7	Intel Core™ i7 Intel® UHD Graphics 620 integrated GPU and NVIDIA® GeForce® GTX 1060 discrete GPU w/ 6GB GDDR5 graphics memory

	Intel® UHD Graphics 620 integrated GPU and NVIDIA® GeForce® GTX 1050 discrete GPU w/ 2GB GDDR5 graphics memory	
Windows OS	Ships with 64-bit Windows 10 Pro (Windows Creators Update)	
Dimensions	Intel Core™ i5 312mm x 232mm x 13mm–23mm 12.3" (L) x 9.14" (W) x 0.51–0.90" (D) Intel Core™ i7 312mm x 232mm x 15mm–23mm 12.3" (L) x 9.14" (W) x 0.59–0.90" (D)	Intel Core™ i7 343mm x 251mm x 15mm–23mm 13.5" (L) x 9.87" (W) x 0.57–0.90" (D)
Weight	Intel Core™ i5 <i>Total</i> – 1533 g (3.38 lbs) <i>Tablet</i> – 719 g (1.59 lbs) Intel Core™ i7 <i>Total</i> – 1642 g (3.62 lbs) <i>Tablet</i> – 719 g (1.59 lbs)	Intel Core™ i7 <i>Total</i> – 1905 g (4.20 lbs) <i>Tablet</i> – 817 g (1.80 lbs)
Battery¹	Up to 17 hours of battery life Up to 5 hours of battery life in Tablet Mode	Up to 17 hours of battery life Up to 5 hours of battery life in Tablet Mode
Wireless	Wi-Fi: IEEE 802.11 a/b/g/n/ac compatible Bluetooth Wireless 4.1 technology Xbox Wireless built in (15" only)	
Ports	2x USB Type-A 3.1 (Gen1) 1x USB Type-C w/ video, power in/out and USB 3.1 (Gen1) data Full-size SDXC card reader (UHS-II) Headphone jack (3.5mm) 2x Surface Connect ports (1 in tablet, 1 in keyboard base)	
Security	TPM 2.0 hardware chip for enterprise security, Common Criteria (CC) EAL4+, FIPS 140-2 Level 2 Windows Hello face sign in	
Sensors	Ambient light sensor Accelerometer Gyroscope Magnetometer	
Cameras	5.0MP 1080p video @30FPS (front) 8.0MP 1080p video @30FPS with auto-focus (rear)	
Audio	Stereo speakers w/ Dolby® Audio™ Premium Windows Sonic for Headphones included Dolby® Atmos™ for headphones compatible	
Keyboard and Trackpad	Full-size, backlit keyboard with 1.55mm of full key travel Glass track pad with antifingerprint coating and improved multifinger gestures	
Modes	Laptop Mode, Tablet Mode, View Mode or Studio Mode	

In the Box	39W (Intel Core™ i5) or 95W (Intel Core™ i7) Surface Power Supply w/ USB Type-A charging port (5W)	95W Surface Power Supply w/ USB Type-A charging port (7.5W)
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¹ Up to 17 hours of video playback. Testing conducted by Microsoft in October 2017 using preproduction Intel Core i5, 256GB, 8GB RAM and Intel Core i7, 512GB, 16GB RAM dGPU devices. Testing consisted of full battery discharge during video playback. All settings were default except: Wi-Fi was associated with a network and Auto-Brightness disabled. Battery life varies significantly with settings, usage and other factors.

² Microsoft Test Lab 3DMark 11 Graphics and LuxMark 3.1 CPU+GPU score comparison, Surface Book 15" [Intel i7-8650U with NVIDIA GeForce GTX 1060] vs. MacBook Pro 15-inch [Intel i7-7567U with AMD Radeon Pro 560], and Surface Book 13" [Intel i7-8650U with NVIDIA GeForce GTX 1050] vs. MacBook Pro 13-inch [Intel i7-7567U], October 2017.

CK

Digital workflows

by Charles Kieffer Group

Tél. +352 26 380 1 **Fax** +352 26 380 380
sales@ck-group.lu

2, rue Léon Laval - Z.A. Am Bann
L-3372 Leudelange

ck-group.lu