

## Produktinformation



### Apple MacBook Pro with Touch Bar - 16" - Core i9 - 32 GB RAM - 512 GB SSD - Swedish

#### Information



<i>Tillverkare</i>	Apple
<i>Artnr</i>	Z0XZ-MVVJ2KS/A-020SE

The thermal architecture in MacBook Pro has been completely redesigned, featuring larger impellers with improved fan blades for optimal airflow and more heat-dispersing fins for more effective cooling. The resulting gain in cooling capacity allows MacBook Pro to deliver up to 12 watts more maximum sustained power. MacBook Pro has a big voice. The six-speaker sound system produces room-filling wide stereo sound like you've never heard from a notebook before. Dual force-canceling woofers dramatically reduce system vibration for a clearer, more natural sound and a half-octave lower range to the bass. And the studio-quality three-mic array rivals professional third-party microphones, for creating superclean podcasts or music recordings on the go.

## Specifikation

### General

<b>Product Type</b>	Notebook
<b>Operating System</b>	Apple macOS Catalina 10.15

### Processor / Chipset

<b>CPU</b>	Intel Core i9 (9th Gen) 2.4 GHz
<b>Max Turbo Speed</b>	5 GHz
<b>Number of Cores</b>	8-core
<b>Cache</b>	L3 - 16 MB
<b>64-bit Computing</b>	Yes
<b>Features</b>	Intel Turbo Boost Technology

### Memory

<b>RAM</b>	32 GB (provided memory is soldered)
<b>Technology</b>	DDR4 SDRAM
<b>Speed</b>	2666 MHz

### Storage

<b>Main Storage</b>	512 GB SSD - (soldered)
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### Display

<b>Type</b>	16" - IPS
<b>LCD Backlight Technology</b>	LED backlight
<b>Resolution</b>	3072 x 1920
<b>Widescreen</b>	Yes
<b>Pixel Density (ppi)</b>	226
<b>Image Brightness</b>	500 cd/m <sup>2</sup>
<b>Features</b>	BFR/PVC-free, Mercury free, arsenic-free glass, beryllium free, Retina display, True Tone display, 60 Hz refresh rate, P3 Wide Color Gamut
<b>Keyboard Name</b>	Apple Magic Keyboard

#### Audio & Video

<b>Multi-GPU Configuration</b>	1 single GPU card / integrated GPU
<b>Graphics Processor</b>	AMD Radeon Pro 5500M / Intel UHD Graphics 630
<b>Video Memory</b>	4 GB GDDR6 SDRAM
<b>Camera</b>	Yes - 720p
<b>Camera Features</b>	FaceTime HD camera
<b>Sound</b>	Six speakers, three microphones
<b>Compliant Standards</b>	Dolby Atmos

#### Input

<b>Type</b>	Keyboard, Force Touch trackpad, Touch Bar
<b>Keyboard Backlight</b>	Yes
<b>Keyboard Layout</b>	Swedish
<b>Features</b>	Pressure sensitivity, multi-touch touchpad, Multi-Touch Gesture Recognition, ambient light sensor, force click, Touch ID sensor

#### Communications

<b>Wireless</b>	802.11a/b/g/n/ac, Bluetooth 5.0
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#### Battery

<b>Technology</b>	Lithium polymer
<b>Capacity</b>	100 Wh
<b>Run Time</b>	Up to 11 hours
<b>Battery Run Time</b>	Web browsing over Wi-Fi: up to 11 hours Video playback: up to 11 hours Standby time: up to 30 days

#### AC Adapter

<b>Input</b>	AC 120/230 V (50/60 Hz)
<b>Output</b>	96 Watt

#### Connections & Expansion

<b>Interfaces</b>	4 x USB-C 3.1 Gen 2/Thunderbolt 3/DisplayPort (Power Delivery) Headphone output
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Software	
<b>Software Included</b>	Drivers & Utilities, Apple QuickTime, Apple iMovie, Apple Safari, Apple GarageBand, Photo Booth, Apple Time Machine, Apple FaceTime, Apple Preview, Mail, Maps, Photos, Reminders, App Store, Music, Contacts, Stocks, Notes, Calendar, Siri, Messages, Dictation, Apple iBooks, Apple Keynote, Apple Pages, Apple Numbers, News, Voice Memos, Podcasts, Home, Apple TV, Find My
Miscellaneous	
<b>Colour</b>	Space grey
<b>Case Material</b>	Aluminum
<b>Security</b>	Apple T2 Security Chip, fingerprint reader
<b>Included Accessories</b>	Power adapter
<b>Cables Included</b>	USB-C charge cable
<b>SAR Value</b>	0.82 W/kg (body)
<b>Pricing Type</b>	CTO
Dimensions & Weight	
<b>Dimensions (WxDxH)</b>	35.79 cm x 24.59 cm x 1.62 cm
<b>Weight</b>	2 kg
Environmental Standards	
<b>EPEAT Compliant</b>	EPEAT Gold
<b>ENERGY STAR Certified</b>	Yes
Manufacturer Warranty	
<b>Service &amp; Support</b>	Limited warranty - 1 year Technical support - phone consulting - 90 days
Environmental Parameters	
<b>Min Operating Temperature</b>	10 °C
<b>Max Operating Temperature</b>	35 °C
<b>Humidity Range Operating</b>	0 - 90% (non-condensing)