

Apple 15" Macbook Pro Touch Bar (2019) (Space Grey) 2.3GHz 8core 9th Gen.Intel i9  
Turbo boost up to +4.8Ghz 16GB Ram 512GB SSD- Radeon Pro 560X with 4GB Memory

## SPECS

### Operating system

Operating system  
Mac OS  
Operating system  
macOS Mojave

### Processor & chipset

Processor speed  
2.30 GHz  
Processor vendor  
Intel  
Processor  
Core i9  
Processor cores  
Octa-core (8 Core)  
Processor generation  
9th Gen

### Memory

Memory (standard)  
16 GB  
Memory technology  
DDR4 SDRAM

### Storage

Disk capacity  
512 GB  
Disk type  
SSD  
Disk type  
SSD  
Disk capacity (SSD)  
512 GB

### Display & graphics

Screen size  
15.4" (39.1 cm)  
Screen size

39.1 cm (15.4")

Screen resolution

2880 x 1800

Display depth

240.7 mm

Display height

15.50 mm

Display width

349.3 mm

Graphics memory

Up to 4 GB

Graphics memory access

Dedicated

Graphics memory access

Shared

Graphics memory technology

DDR4 SDRAM

Graphics memory technology

GDDR5

Graphics model

Radeon Pro 560X

Graphics model

UHD Graphics 630

Graphics vendor

AMD

Graphics vendor

Intel

## Camera, video & audio

Front camera

Yes

## Keyboard, mouse & input

Fingerprint

Yes

## Networking & connectivity

Bluetooth

Yes

Wireless LAN

Yes

Wireless standard

IEEE 802.11a/b/g/n/ac

## Power, battery & charging

Battery life

**10 Hour**

Input voltage

**120 V AC**

Input voltage

**230 V AC**

## Exterior & appearance

Colour

**Space Gray**

USB ports

**4**

USB Type-C

**Yes**

USB Type-C

**Four Thunderbolt 3 (USB-C) ports**