

# Macbook Pro officially up Core i5, i7

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13 inch Macbook Pro version. (Photo: Apple) .

The first Macbook Pro series to be upgraded is a 13-inch screen. These models will still use Intel Core 2 Duo processor, 4GB RAM but stand out with a continuous use of up to 10 hours. The models are also equipped with a new NVIDIA GeForce 320M graphics card, which increases processing power by 80% compared to the old version by the manufacturer.

***See detailed configuration of two 13-inch Macbook Pro versions.***

*13-inch MacBook Pro version costs \$ 1,199:*

1. 13-inch LED backlight mirror screen resolution of 1,280 x 800 pixels;
2. Intel Core 2 Duo processor clocked at 2.4 GHz 3MB L2 cache 1066 MHz.
3. 4GB DDR3 RAM 1066 MHz, up to 8GB upgrade.
4. NVIDIA GeForce 320M graphics card.
5. SATA hard drive 250GB capacity 5,400 rpm with Sudden Motion Sensor technology;
6. 2X 8X (DVD ± R DL / DVD ± RW / CD-RW) optical read / write optical drive
7. Mini DisplayPort ports (VGA, DVI and HDMI adapters sold separately).
8. Wi-Fi 802.11n and Bluetooth 2.1 + EDR.

9. Gigabit Ethernet port;
10. iSight Camera.
11. 2 USB 2.0 ports.
12. 1 FireWire 800 port (FireWire 400 reverse support).
13. SD card reader.
14. headphone / line in (analog / digital);
15. Trackpad multi-touch and keyboard with lights.
16. Lithium polymer battery 63.5WHr

*The 13-inch MacBook Pro version costs \$ 1,499:*

1. 13-inch LED backlight mirror screen resolution of 1,280 x 800 pixels;
2. Intel Core 2 Duo processor clocked at 2.66 GHz 3MB L2 cache 1066 MHz.
3. 4GB DDR3 RAM 1066 MHz, up to 8GB upgrade.
4. NVIDIA GeForce 320M graphics card.
5. SATA hard drive with 320GB capacity at 5400 rpm with Sudden Motion Sensor technology;
6. 2X 8X (DVD ± R DL / DVD ± RW / CD-RW) optical read / write optical drive
7. Mini DisplayPort ports (VGA, DVI and HDMI adapters sold separately).
8. Wi-Fi 802.11n and Bluetooth 2.1 + EDR.
9. Gigabit Ethernet port;
10. iSight Camera.
11. 2 USB 2.0 ports.
12. 1 FireWire 800 port (FireWire 400 reverse support).
13. SD card reader.
14. headphone / line in (analog / digital);
15. Trackpad multi-touch and keyboard with lights.
16. Lithium polymer battery 63.5WHr

Macbook Pro 13-inch screen size will have two versions, one uses the 2.4 GHz Intel Core 2 Duo chip, 250GB hard drive costs \$ 1,199, the other version uses Intel Core 2 Duo speed 2 , 66 GHz 320GB hard drive costs \$ 1,499.

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Meanwhile, the 15-inch and 17-inch Macbook Pro models are announced by the manufacturer with a 50% increase in machine speed thanks to Intel's 32nm processor Core i5 and i7.



15 inch Macbook Pro version. (Photo: Apple) .

In addition, these models will also be equipped with NVIDIA GeForce GT 330M graphics card and integrated Intel HD Graphics graphics chip, which will be mutually exchanged through Nvidia Optimus technology to maximize the performance of the device (in communication). His press release, Apple merely calls this graphics card conversion technology. The 15-inch and 17-inch Macbook Pro have about 8 to 9 hours of continuous use after each charge.

***See detailed configuration of 15-inch Macbook Pro models.***

*The 15-inch MacBook Pro costs \$ 1,799:*

1. LED backlight mirror screen size 15.4 inches 1,440 x 900 pixel resolution;
2. Intel Core i5 processor clocked at 2.4 GHz 3MB L3 cache.
3. 4GB DDR3 RAM 1066 MHz, up to 8GB upgrade.
4. NVIDIA GeForce graphics card 330M 256MB VRAM and Intel HD Graphics graphics chip.
5. SATA hard drive with 320GB capacity at 5400 rpm with Sudden Motion Sensor technology;
6. 2X 8X (DVD ± R DL / DVD ± RW / CD-RW) optical read / write optical drive
7. Mini DisplayPort ports (VGA, DVI and HDMI adapters sold separately).
8. Wi-Fi 802.11n and Bluetooth 2.1 + EDR.
9. Gigabit Ethernet port;
10. iSight Camera.
11. 2 USB 2.0 ports.
12. 1 FireWire 800 port (FireWire 400 reverse support).
13. SD card reader.
14. headphone / line in (analog / digital).
15. audio line out / headphone (analog / digital).
16. Trackpad multi-touch and keyboard with lights.
17. Lithium polymer battery 77.5Whr

*The MacBook Pro 15 inch version costs \$ 1,999:*

1. LED backlight mirror screen size 15.4 inches 1,440 x 900 pixel resolution;
2. Intel Core i5 processor clocked at 2.53 GHz 3MB L3 cache.
3. 4GB DDR3 RAM 1066 MHz, up to 8GB upgrade.

4. NVIDIA GeForce graphics card 330M 256MB VRAM and Intel HD Graphics graphics chip.
5. SATA hard drive with 500GB capacity of 5,400 rpm with Sudden Motion Sensor technology;
6. 2X 8X (DVD ± R DL / DVD ± RW / CD-RW) optical read / write optical drive
7. Mini DisplayPort ports (VGA, DVI and HDMI adapters sold separately).
8. Wi-Fi 802.11n and Bluetooth 2.1 + EDR.
9. Gigabit Ethernet port;
10. iSight Camera.
11. 2 USB 2.0 ports.
12. 1 FireWire 800 port (FireWire 400 reverse support).
13. SD card reader.
14. headphone / line in (analog / digital).
15. audio line out / headphone (analog / digital).
16. Trackpad multi-touch and keyboard with lights.
17. Lithium polymer battery 77.5WHr

*15-inch MacBook Pro version costs \$ 2,199:*

1. LED backlight mirror screen size 15.4 inches 1,440 x 900 pixel resolution;
2. Intel Core i7 processor clocked at 2.66 GHz 3MB L3 cache.
3. 4GB DDR3 RAM 1066 MHz, up to 8GB upgrade.
4. NVIDIA GeForce graphics card 330M 256MB VRAM and Intel HD Graphics graphics chip.
5. SATA hard drive with 500GB capacity of 5,400 rpm with Sudden Motion Sensor technology;
6. 2X 8X (DVD ± R DL / DVD ± RW / CD-RW) optical read / write optical drive
7. Mini DisplayPort ports (VGA, DVI and HDMI adapters sold separately).
8. Wi-Fi 802.11n and Bluetooth 2.1 + EDR.
9. Gigabit Ethernet port;
10. iSight Camera.
11. 2 USB 2.0 ports.
12. 1 FireWire 800 port (FireWire 400 reverse support).
13. SD card reader.
14. headphone / line in (analog / digital).
15. audio line out / headphone (analog / digital).
16. Trackpad multi-touch and keyboard with lights.
17. Lithium polymer battery 77.5WHr

Macbook Pro 15 inch will include 3 versions including: model using 2.4 GHz Core i5 processor, NVIDIA GeForce GT 330M graphics card, 320GB hard drive, second model using Intel Core i5 processor At 2.53 GHz, NVIDIA GeForce GT 330M graphics card, 500 GB hard drive costs \$ 1,999 and the final model uses Intel Core i7 processor at 2.66 GHz, NVIDIA GeForce GT 330M graphics card, hard drive 500GB costs 2,199 USD.

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17 inch Macbook Pro version equipped with Intel Core i5 processor with 2.53 GHz speed, NVIDIA GeForce GT 330M graphics card, 500GB hard drive priced at 2,299 USD. If you want to upgrade with Core i7 users have to pay an additional \$ 200.



17 inch Macbook Pro version. (Photo: Apple) .

These models will also include an optional high-resolution LED backlight screen with 1,920 x 1,200 pixels for 17-inch versions and 1,680 x 1,050 pixels for a 15-inch version and a 128 GB solid-state hard drive upgrade. , 256 GB and 512 GB or traditional hard drive speeds of 7,200 rpm compared to the default 5,400 rpm (an additional 50 USD).

All new Macbook Pro versions will come preinstalled with Mac OS X Snow Leopard operating system and iLife software to manage images, make movies and play music.

***Details of the 17-inch MacBook Pro version cost \$ 2,299:***

1. LED backlight mirror screen size 15.4 inches 1,920 x 1,200 pixel resolution;
2. Intel Core i5 processor clocked at 2.53 GHz 3MB L3 cache.
3. 4GB DDR3 RAM 1066 MHz, up to 8GB upgrade.
4. NVIDIA GeForce 330M graphics card with 512MB VRAM and Intel HD Graphics graphics chip.
5. SATA hard drive with 500GB capacity of 5,400 rpm with Sudden Motion Sensor technology;
6. 2X 8X (DVD ± R DL / DVD ± RW / CD-RW) optical read / write optical drive
7. Mini DisplayPort ports (VGA, DVI and HDMI adapters sold separately).
8. Wi-Fi 802.11n and Bluetooth 2.1 + EDR.
9. Gigabit Ethernet port;
10. iSight Camera.
11. 3 USB 2.0 ports.
12. 1 FireWire 800 port (FireWire 400 reverse support).
13. SD card reader.
14. ExpressCard / 34 slot
15. headphone / line in (analog / digital).
16. audio line out / headphone (analog / digital).
17. Trackpad multi-touch and keyboard with lights.
18. Lithium polymer battery 95WHr

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