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↑ 223mm  
 → 308mm  
 → 14.5mm



↑ 197mm  
 → 281mm  
 → 13.1mm

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1.25kg



0.92kg

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(Microsoft Surface Laptop :Apple MacBook) 12-inch 13.5-inch

Surface Laptop



aluminum  
Alcantara

12-inch MacBook



aluminum

Microsoft Surface Laptop 4 is a 13.5-inch laptop with a 100% display. It features a combination of aluminum and Alcantara for the lid. The Apple 12-inch MacBook is a 12-inch laptop with a 77% display. It is made of aluminum. The Surface Laptop 4 is larger than the MacBook, but the MacBook has a higher screen-to-body ratio.

(Microsoft Surface Laptop :Apple MacBook) 12-inch 13.5-inch

Surface Laptop



13.5"

12-inch MacBook



12"

The Microsoft Surface Laptop 4 has a 100% display, while the Apple 12-inch MacBook has a 77% display. The Surface Laptop 4 is 13.5 inches wide, and the MacBook is 12 inches wide. The Surface Laptop 4 is made of aluminum and Alcantara, while the MacBook is made of aluminum.

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2256 x 1504  
201 ppi



2304 x 1440  
226 ppi

በጥቅምት 1504 እና 2256 በጥቅምት 1440 እና 2304 በጥቅምት 201 እና 226 በጥቅምት 226

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Microsoft Windows Hello) በሚባል ስር የተፈጸመው የደንበኛው መለያ ምልክት ለማስተካከል የሚያስችል አቴክኖሎጂ ነው። ይህ ስር በ2016 ዓ.ም. 12 ለመጀመሪያ ጊዜ ተፈጻሚነቱን አግኝቶ ሲገኝ፡፡





Intel core i5  
Intel core i7  
7th-gen.



Intel core m3  
1.1GHz→2.2GHz

Intel core m5  
1.2GHz→2.7GHz

Intel core m7\*  
1.3GHz→3.1GHz

6th-gen.

00 000000 Core M7 0 Core M30 Core M5 00000000 0000 0000000000 000 00 000 2016 000000 12 000000  
 00000000 000000 000 00 000000000000 000 00000000 0000 00 000000 000000000000 000 000 000 00 0000  
 000 00 Core i7 0 Core i5 00000 00 00 0000000000 000 00 00 000000 000000 0 000000 000 00 00000 000000  
 .000000 000000 000000 000000 (KabyLake) 00000000 0000000000000000 000 00000

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Intel HD 620 (i5)  
Intel Iris Plus 640 (i7)



Intel HD 515

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 000000 0000000000 0000 000 000 Intel HD 640 0 Core i5 0000 0000 Intel HD 620 0000000000 00 00 000000  
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4GB  
8GB  
16GB



8GB

[illegible]

.በዚህ ምዕራፍ ስለ መረጃዎች 12 ሰዓታት ስለ መጠቀምዎቻችሁ ምዕራፍ ስለሚገኝ ስለ ምዕራፍ ስለ

(በዚህ ምዕራፍ :በዚህም) ስለሚገኝ ስለሚገኝ

Surface Laptop



128GB  
256GB  
512GB

12-inch MacBook



256GB  
512GB

በዚህ ስለ ስለሚገኝ ስለ .በዚህም ስለሚገኝ 512 ስለ 256 ስለሚገኝ ስለሚገኝ 2016 ስለሚገኝ 12 ስለሚገኝ ስለሚገኝ ስለ ስለሚገኝ ስለ .በዚህም ስለሚገኝ ስለ ስለሚገኝ 512 ስለ 256 ስለ128 ስለሚገኝ ስለሚገኝ ስለሚገኝ ስለ ስለሚገኝ ስለ ስለሚገኝ 12 ስለሚገኝ ስለሚገኝ ስለሚገኝ .በዚህም ስለሚገኝ 12 ስለሚገኝ ስለ ስለሚገኝ ስለ ስለሚገኝ ስለ ስለሚገኝ ስለ

(በዚህም ስለሚገኝ ስለሚገኝ ስለሚገኝ :በዚህም) ስለሚገኝ

Surface Laptop



behind keys  
Dolby Audio Premium

12-inch MacBook



stereo speakers

[illegible]

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"up to 14.5 hours"



“up to 10 hours web”  
41.4W-h

[illegible]

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Surface Laptop



720p



480p

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.0000 480p

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 Windows 10 S \*



# macOS Sierra

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\$999



\$1299

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**12 :** □□□□□□□□ □□□□ □□□□ □□□□□□

[\[PDF\] - 2016 年 12 月 - 中国 - 中国疾病预防控制中心](#)

<https://www.shabakeh-mag.com/gadget/7764/%D9%85%D9%82%D8%A7%DB%8C%D8%B3%D9%87-%D8%AA%D8%B5%D9%88%DB%8C%D8%B1%DB%8C-%D9%84%D9%BE%E2%80%8C%D8%AA%D8%A7%D9%BE-%D8%B3%D8%B1%D9%81%DB%8C%D8%B3-%D9%85%D8%A7%DB%8C%DA%A9%D8%B1%D9%88%D8%B3%D8%A7%D9%81%D8%AA-%D8%A8%D8%A7-%D9%85%DA%A9%E2%80%8C%D8%A8%D9%88%DA%A9-2016-%D8%A7%D9%BE%D9%84>