







## 2a) iPhone 16 Pro Max

Input: Touchscreen Display (Capacitive sensor), FaceID (TrueDepth Camera), Microphone

Output: LTPO Super Retina XDR OLED Display, Stereo Speakers, Taptic Engine

Memory: LPDDR5X RAM, NAND Flash Storage

Datapath: Neural Engine

Control: A18 Pro

## Sources used:

https://www.gsmarena.com/apple\_iphone\_16\_pro\_max-13123.php https://support.apple.com/en-us/121032

## 2b)

The 1940s: Manchester Baby (Memory: 128 Bytes, 0.125 KibiBytes)

 $\label{log:complex} $$ $$ https://blog.google/around-the-globe/google-europe/youve-come-long-way-baby-remembering/#:~:text=Manchester%20Baby%3A%20world's%20first%20stored%20program%20computer&text=In%20technical%20terms%2C%20the%20Williams,equivalent%20tow20just%20128%20bytes.$ 

The 1950s: ENIAC (Memory: 20 Bytes, 0.0195 KibiBytes) It was released in 1945, but Memory was built in 1953. https://en.wikipedia.org/wiki/ENIAC

The 1960s: Atlas Computer (Memory: 524,288 Bytes, 512 KibiBytes)

https://ethw.org/Milestones:Atlas\_Computer\_and\_the\_Invention\_of\_Virtual\_Memory,\_1957-

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The 1970s: IBM 2321 Data Cell Drive (Memory: 400 million Bytes, 381 MebiBytes) https://www.columbia.edu/cu/computinghistory/datacell.html

The 1980s: Macintosh (Memory: 400,000 Bytes, 0.381 MebiBytes) https://computeradsfromthepast.substack.com/p/byte-interview-with-the-creators

The 1990s: BeBox (Memory: 256 MegaBytes, 244.141 MebiBytes)

http://testou.free.fr/www.beatjapan.org/mirror/www.be.com/products/bebox/dual603ds.h tml

The 2000s: MacBook Pro (2006) (Memory: 1 GigaByte, 0.931 GibiBytes)

https://lowendmac.com/2006/15-in-macbook-pro-late-2006/

The 2010s: iPhone 4 (Memory; 512 MegaBytes, 0.476 GibiBytes)

https://support.apple.com/en-us/112562

The 2020s: Fagaku (Memory: 4.85 PetaBytes, 4516914 GibiBytes)

https://www.fujitsu.com/global/about/innovation/fugaku/specifications/

2c)

- (1) 20 minutes
- (2) 1328 Characters
- (3) 33,608 Bytes, ARM
- (4) 0.004