



iOS CPU Identification Chart

The following chart below is for mobile engineers, forensics teams & exploit engineers tracking embedded processor revisions of Apple iOS devices.

iPhone

iPhone 1: CPU Specs Core Design: ARM1176 x 1 CPU: S5L8900 CPU Speed: 400 MHz (412 MHz as of iPhone OS 11.2) Instruction Set: ARMv6 Device Size: 115 mm x 61 mm Resolution: 320 x 480 Released: June 29, 2007	iPhone 3G: CPU Specs Core Design: ARM1176 x 1 CPU: S5L8900 CPU Speed: 412 MHz Instruction Set: ARMv6 Device Size: 115.5 mm x 62.1 mm Resolution: 320 x 480 Released: July 11, 2008	iPhone 3GS: CPU Specs Core Design: ARM Cortex-A8 x 1 CPU: S5L8920 CPU Speed: 620 MHz Instruction Set: ARMv7 Device Size: 115.5 mm x 62.1 mm Resolution: 320x480 Released: June 19, 2009	iPhone 4: CPU Specs Core Design: ARM Cortex-A8 x 1 CPU: S5L8930 "A4" CPU Speed: 800 MHz Instruction Set: ARMv7 Device Size: 115.5 mm x 62.1 mm Resolution: 960x640 Released: June 21, 2010	iPhone 4S: CPU Specs Core Design: ARM Cortex-A9 x 2 CPU: S5L8940 "A5" CPU Speed: 800 MHz Instruction Set: ARMv7 Device Size: 115.2 mm x 58.6 mm Resolution: 960x640 Released: October 14, 2011	iPhone 5: CPU Specs Core Design: Swift x 2 CPU: S5L8950 "A6" CPU Speed: 1.2 GHz Instruction Set: ARMv7s Device Size: 123.8 mm x 58.6 mm Resolution: 1136x640 Released: September 21, 2012	iPhone 5C: CPU Specs Core Design: Swift x 2 CPU: S5L8950 "A6" CPU Speed: 1.2 GHz Instruction Set: ARMv7s Device Size: 124.4 mm x 59.2 mm Resolution: 1136x640 Released: September 20, 2013
iPhone 5S: CPU Specs Core Design: Apple Cyclone x 2 CPU: S5L8960 "A7" CPU Speed: 1.3 GHz Instruction Set: ARMv8 Device Size: 123.8 mm x 58.6 mm Resolution: 1136x640 Released: September 20, 2013	iPhone 6: CPU Specs Core Design: Apple Typhoon x 2 CPU: T7000 "A8" CPU Speed: 1.8 GHz Instruction Set: ARMv8 Device Size: 138.1 mm x 67 mm Resolution: 1334x750 Released: September 19, 2014	iPhone 6 Plus: CPU Specs Core Design: Apple Typhoon x 2 CPU: T7000 "A8" CPU Speed: 1.8 GHz Instruction Set: ARMv8 Device Size: 158.1 mm x 77.8 mm Resolution: 1920x1080 Released: September 19, 2014	iPhone 6S: CPU Specs Core Design: Apple Twister x 2 CPU: S8000 and S8003 "A9" CPU Speed: 1.85 GHz Instruction Set: ARMv8 Device Size: 138.3 mm x 67.1 mm Resolution: 1334x750 Released: September 25, 2015	iPhone 6S Plus: CPU Specs Core Design: Apple Twister x 2 CPU: S8000 and S8003 "A9" CPU Speed: 1.85 GHz Instruction Set: ARMv8 Device Size: 158.2 mm x 77.9 mm Resolution: 1920x1080 Released: September 25, 2015	iPhone SE: CPU Specs Core Design: Apple Twister x 2 CPU: S8000 & S8003 "A9" CPU Speed: 1.85 GHz Instruction Set: ARMv8 Device Size: 123.8 mm x 58.6 mm Resolution: 1136x640 Released: March 31, 2016	iPhone 7: CPU Specs Core Design: Apple Fusion x 2 CPU: T8010 "A10" CPU Speed: 2.34 GHz Instruction Set: ARMv8 Device Size: 138.3 mm x 67.1 mm Resolution: 1334x750 Released: September 16, 2016
iPhone 7 Plus: CPU Specs Core Design: Apple Fusion x 2 CPU: T8010 "A10" CPU Speed: 2.34 GHz Instruction Set: ARMv8 Device Size: 156.2 mm x 77.9 mm Resolution: 1920x1080 Released: September 16, 2016	iPhone 8: CPU Specs Core Design: Apple Monsoon x 2 and Apple Mistral x 4 CPU: T8015 "A11" CPU Speed: 2.39 GHz Instruction Set: ARMv8 Device Size: 156.2 mm x 77.9 mm Resolution: 1334x750 Released: September 22, 2017	iPhone 8 Plus: CPU Specs Core Design: Apple Monsoon x 2 and Apple Mistral x 4 CPU: T8015 "A11" CPU Speed: 2.39 GHz Instruction Set: ARMv8 Device Size: 158.4 mm x 87.3 mm Resolution: 1920x1080 Released: September 22, 2017	iPhone X: CPU Specs Core Design: Apple Monsoon x 2 and Apple Mistral x 4 CPU: T8015 "A11" CPU Speed: 2.39 GHz Instruction Set: ARMv8 Device Size: 158.4 mm x 78.1 mm Resolution: 2436x1125 Released: November 3, 2017	iPhone XS: CPU Specs Core Design: Apple Vortex x 2 and Apple Tempest x 4 CPU: T8020 "A12 Bionic" CPU Speed: 2x 2.6 GHz Instruction Set: ARMv8.3 Device Size: 143.6 mm x 70.9 mm Resolution: 2436x1125 Released: September 21, 2018	iPhone XS Max: CPU Specs Core Design: Apple Vortex x 2 and Apple Tempest x 4 CPU: T8020 "A12 Bionic" CPU Speed: 2.49 GHz Instruction Set: ARMv8.3 Device Size: 143.6 mm x 70.9 mm Resolution: 2436x1125 Released: September 21, 2018	iPhone XR: CPU Specs Core Design: Apple Vortex x 2 and Apple Tempest x 4 CPU: T8020 "A12 Bionic" CPU Speed: 2x 2.6 GHz Instruction Set: ARMv8.3 Device Size: 150.9 mm x 75.7 mm Resolution: 1792x888 Released: October 26, 2018

iPad

iPad Core Design: ARM Cortex-A8 x 1 CPU: S5L8930 "A4" CPU Speed: 1 GHz Instruction Set: ARMv7 Device Size: 115 mm x 62.1 mm Resolution: 1024x768 Released: April 3, 2010	iPad 2 Core Design: ARM Cortex-A9 x 2 CPU: S5L8940 "A5" CPU Speed: 1.2 GHz Instruction Set: ARMv8 Device Size: 115.5 mm x 62.1 mm Resolution: 1024x768 Released: March 11, 2011	iPad 3 Core Design: Apple Swift x 2 CPU: S5L8945 "A5X" CPU Speed: 1 GHz Instruction Set: ARMv7 Device Size: 115.5 mm x 62.1 mm Resolution: 1024x768 Released: November 2, 2012	iPad Mini Core Design: Apple Swift x 2 CPU: S5L8945 "A5X" CPU Speed: 1.2 GHz Instruction Set: ARMv7 Device Size: 115.5 mm x 62.1 mm Resolution: 1024x768 Released: March 16, 2012	iPad 4 Core Design: Apple Swift x 2 CPU: S5L8955 "A6X" CPU Speed: 1.4 GHz Instruction Set: ARMv7 Device Size: 115.5 mm x 62.1 mm Resolution: 1024x768 Released: November 2, 2012	iPad Mini 2 Core Design: Apple Swift x 2 CPU: S5L8955 "A6X" (underclocked to 1.3 GHz) CPU Speed: 1.4 GHz Instruction Set: ARMv7 Device Size: 115.5 mm x 62.1 mm Resolution: 2048x1536 Released: November 12, 2013	iPad Air Core Design: Apple Cyclone x 2 CPU: S5L8965 "A7 Rev A" CPU Speed: 1.4 GHz Instruction Set: ARMv8 Device Size: 115.2 mm x 58.6 mm Resolution: 2048x1536 Released: November 1, 2013	iPad Mini 3 Core Design: Apple Cyclone x 2 CPU: S5L8965 "A7 Rev A" CPU Speed: 1.4 GHz Instruction Set: ARMv8 Device Size: 115.2 mm x 58.6 mm Resolution: 2048x1536 Released: October 22, 2014	iPad Air 2 Core Design: Apple Typhoon x 2 CPU: T7004 "A8X" CPU Speed: 1.5 GHz Instruction Set: ARMv8 Device Size: 123.8 mm x 58.6 mm Resolution: 1136x640 Released: October 22, 2014
iPad Mini 4 1.6 GHz Tri-Core 64-bit Apple A8X w/Apple M8 Motion Co-Processor Device Size: 115 mm x 62.1 mm Resolution: 2048x1536 Released: September 9, 2015	iPad Pro 12.9" CPU: S8001 "A9X" CPU Speed: 2.34 GHz Instruction Set: ARMv8.4 Device Size: 124.4 mm x 59.2 mm Resolution: 2734x2048 Released: November 11, 2015	iPad Pro 9.7" Core Design: Apple Twister x 2 CPU: S8001 "A9X" CPU Speed: 2.36 GHz Instruction Set: ARMv8-A Device Size: 124.4 mm x 59.2 mm Resolution: 2048x1536 Released: March 31, 2016	iPad 5 Core Design: Apple Twister x 2 CPU: T8015 "A11" CPU Speed: 1.8 GHz Instruction Set: ARMv8 Device Size: 124.4 mm x 59.2 mm Resolution: 2048x1536 Released: March 24, 2017	iPad Pro 2 12.9" Core Design: Apple Hurricane x 3 & Apple Zephyr x 3 CPU: T8015 "A11" CPU Speed: 2.38 GHz Instruction Set: ARMv8 Device Size: 124.4 mm x 59.2 mm Resolution: 2734x2048 Released: June 13, 2017	iPad Pro 2 10.5" Core Design: Apple Hurricane x 3 & Apple Zephyr x 3 CPU: T8015 "A11" CPU Speed: 2.38 GHz Instruction Set: ARMv8 Device Size: 124.4 mm x 59.2 mm Resolution: 2734x2048 Released: June 13, 2017	iPad 6 Core Design: Apple Fusion x 2 CPU: T8020 "A12" CPU Speed: 2.49 GHz Instruction Set: ARMv8 Device Size: 123.8 mm x 58.6 mm Resolution: 2388x1668 Released: March 27, 2018	iPad Pro 3 11" Core Design: Apple Vortex x 2 and Apple Tempes t x 4 CPU: T8020 "A12" CPU Speed: 2.49 GHz Instruction Set: ARMv8 Device Size: 123.8 mm x 58.6 mm Resolution: 2388x1668 Released: October 30, 2018	iPad Pro 3 12.9" Core Design: Apple Vortex x 4 and Apple Tempes t x 4 CPU: T8020 "A12X" CPU Speed: 2.49 GHz Instruction Set: ARMv8 Device Size: 124.4 mm x 59.2 mm Resolution: 2732x2048 Released: October 30, 2018