Apple will equip a new coprocessor chip on the iPhone 2019 with many interesting additional features

Apple is preparing to radically improve its position and motion tracking capabilities on some of its upcoming smartphones / wearables.

Just before the launch of the 2019 iPhone, a build that was alleged to be related to iOS 13 has been leaked, showing that Apple is preparing to thoroughly enhance the ability to track movement and location on. some of its upcoming smartwatches / wearables, using a new coprocessor chip, codenamed Rose or R1.

If you do not know, the coprocessor is an auxiliary processor, integrated on a device to complement the main processor in managing and performing certain functions, in this case as auxiliary. ability to track user movement and location. Coprocessor chips are small in size and use less power than the main chip.

1. What needs to be prepared before upgrading to the official iOS 13 update

Apple will equip on iPhone 11 a new coprocessor chip, codenamed Rose or R1.

According to a new report released by reputable news site MacRumors, the Rose chip appears to be set to replace Apple's current M-series motion processors. A new sensor will be introduced, along with a stronger wireless signal, allowing devices to recognize their position in physical space. as well as any other related movements.

On the latest products, Apple is combining the M12 coprocessor chip with the A12 and A12X Bionic main chips to allow devices such as iPhones and iPads to collect motion data, wake the screen on the move. , and activate Siri even when the main chip is deactivated.

However, the actual function of the M12 chip is relatively limited, mainly focusing on collecting and analyzing data from the compass, gyroscope, accelerometer, manometer and microphone of the device.

1. Can Apple release an iPhone SE model no more than $ 400 next year?

Meanwhile, the new generation Rose chip contains more 'cool' features. Such as the ability to support inertial measurements, features that measure the position of objects in three dimensions based on Bluetooth 5.1 technology, super broadband location mapping, and camera sensor data analysis. . In general, the new and enhanced features will allow the device to be able to grasp its status in real time, such as when falling or moving quickly in a certain direction, as well as helping the device. determine by itself both the location of itself and the accessories or other objects within a given range.

Of course, the arrival of this new generation coprocessor chip will also have a positive impact on the device's enhanced AR processing capabilities. Rose is expected to help provide location data for AR glasses, significantly improve 3D spatial mapping capabilities for AR applications, and speed up the AR integration of digital elements on humans. real, object, or backdrop. If Rose is an upgrade of the M12 rather than an entirely new development chip, we can count on this new chip's extremely economical power usage.

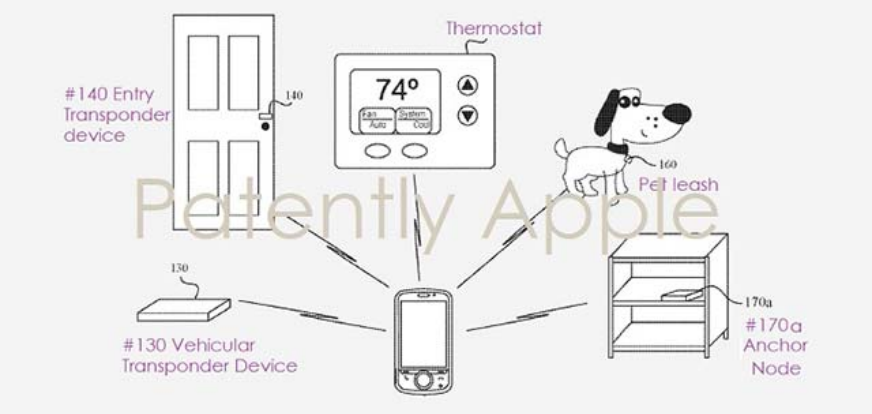
1. Apple Music launches web platform, beautiful, intuitive, and relatively full-featured

With the arrival of Rose, the iPhone 11's AR handling capabilities will be greatly improved

In addition, the MacRumors report also mentioned that Apple is likely to bring brand-new ultra-wideband wireless radio (UWB) technology to a number of products that will be launched in last month of 2019.

Read here for many people may be confused with a few similar terms in how to promote the benefits of 5G millimeter wave connectivity that many companies have talked about. However, the UWB is thought to provide location tracking with greater accuracy, allowing objects to be precisely positioned within a range of 10-30cm from their actual position in the real time (for Bluetooth 5.1 versions), and 1-3m for older Bluetooth versions.

1. How much 'successful' will your Apple Watch be if not connected to an iPhone?



Apple's ultra-high-bandwidth wireless technology could be brought to the iPhone 11

Deploying UWB on mobile devices is not easy. The appearance of this technology will increase the selling price of the product significantly. Therefore, it is unclear whether Apple will use this technology merely for the purpose of tracking users' locations or for other more unique plans.

The Rose coprocessor chip is expected to be available on phones this year, and most likely on other Apple mobile devices like the iPad and Apple Watch. It is currently unclear whether Apple will call this chip R1, or by its convention of sorting with new A-series processors (corresponding to R13,) or S-series ('R5'). in case this chip is planned for use on many different platforms.

1. Check out the most anticipated announcements at the iPhone 11 launch event

IPhone 11 launch event will take place at 0h on 11/9

Apple will broadcast the live event of the iPhone 11 on September 10, or September 11 (Vietnam time) on YouTube. For more details on how to track the iPhone 11 launch event live on YouTube, please refer to the article: "Apple streamed the iPhone 11 launch event on YouTube, you can schedule a watch from now on".

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