

TSMC is ready for the 5nm process, the first product will be the Apple A14 Bionic?

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Recently, a number of technology newspapers reported that the new Apple A13 chip manufactured by TSMC will be available on iPhone models this year (2019), and the chip continues to be produced on the 7nm process. However, things will not stop there, according to Venturebeat, TSMC is in the process of ensuring supply for its first 5 nm chip orders next year.

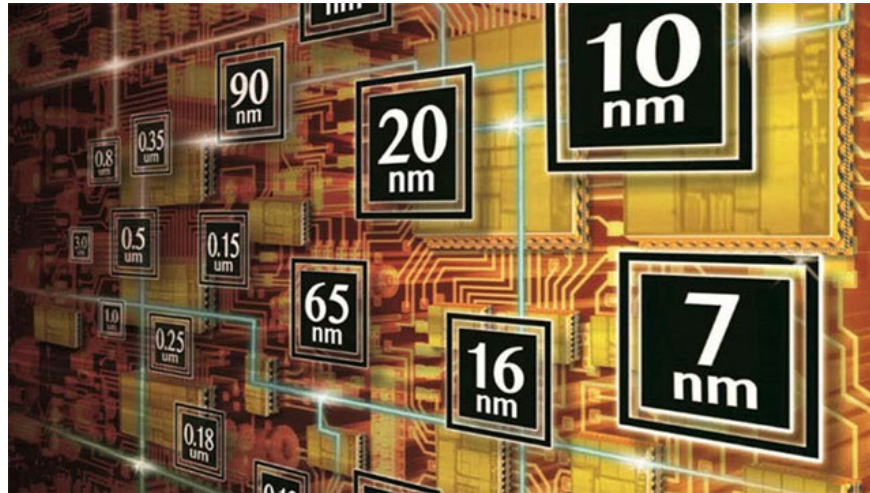
Taiwanese chip manufacturer TSMC has spent many years researching, along with tireless investments to commercialize the superior 5nm chip manufacturing process, and so far, they can say 90% success in hand. Accordingly, TSMC will continue to undertake the production of the Apple A14 Bionic chips with the latest 5nm process, along with significant improvements in processing efficiency and power savings. Basically, this manufacturing process will allow smaller distances between transistors, thereby helping to leave space for more transistors and improve performance.



1. See the benchmark of the extremely rare Intel Core i9-9990XE CPU, only auctioned to OEM

It is likely that in the next 1-2 years, TSMC will still be the monopoly name in the 5nm process chip market because other large chip suppliers will continue to release processors. 7nm for work support AI and AI 5G applications.

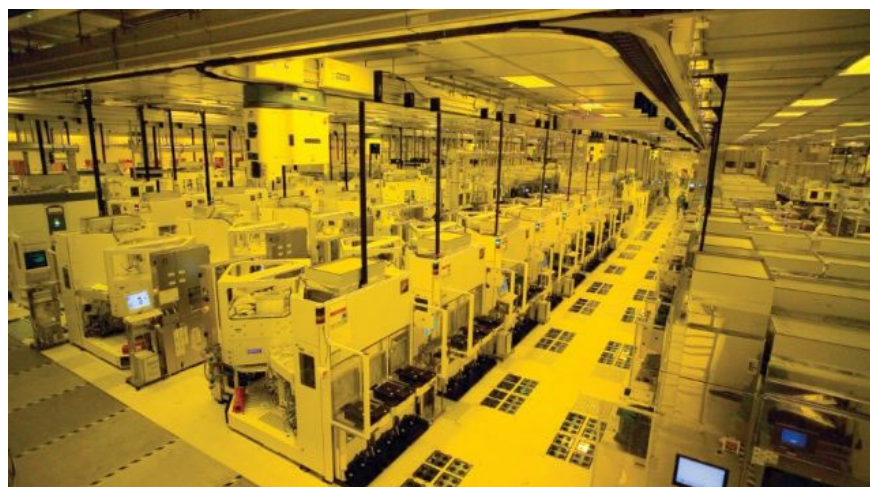
The chip manufacturing industry is still in a strong transition from larger manufacturing lines of 14nm and 10nm chips to a smaller 7nm process and even now at 5nm, at a dizzying speed. Of course this is an extremely costly and arduous 'arms race', there will be no room for those who are slow, or worse, have insufficient resources to invest. In terms of the 5nm processor market at the present time, perhaps only Samsung is able to compete fairly and create a balance with TSMC.



1. Intel officially introduced the Ice 10nm CPU, promising to be available on PCs shipped later this year

Huawei, MediaTek and Qualcomm all announced that they will officially introduce new 7nm processors for 5G smartphones this week, within the MWC Global Mobile Exhibition 2019, taking place in Barcelona. 27-28 coming here. Meanwhile, major component suppliers such as security chip maker NXP and OmniVision, a camera designer, are also moving into using TSMC's 7nm technology. These changes are extremely necessary for the overall development of the market, and they are most likely to benefit consumers themselves.

Going back to TSMC's story, the Taiwanese manufacturer said it will start the chain and put it into mass production of the 5nm processor as early as the second half of this year, using the etching process. Higher accuracy is called Extreme Ultraviolet Lithography (EUV). In fact, this technology has been introduced and applied in second-generation 7nm chips, allowing TSMC to integrate up to 14 layers, much more laminated than on the same model. each chip of the company.



1. Nvidia's 7nm process GPU will probably launch in 2020?

In addition, TSMC did not hide its ambition to produce 3nm chips by 2022, without any problems or incidents arising during development, this is purely a goal at hand. TSMC.

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