

# Samsung invested \$ 6 billion in the new 7nm EUV factory

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Samsung is expanding its capacity to produce EUV 7nm processors by investing \$ 6 billion in a new semiconductor factory in Hwaseong, South Korea. The announcement came after Samsung reached an agreement with Qualcomm to produce 5G mobile chips in the future, the chip will be based on Samsung's 7nm LPP manufacturing process and the technology button EUV (EUV lithography). ).

If you don't know yet, EUV lithography stands for Extreme ultraviolet lithography, new generation lithography technology, using ultra-violet wavelength (EUV), with a width of only 13.5nm. EUV is being developed for wide use by 2020. With this EUV lithography printing technology, the density of transistors on the chip will increase, thereby bringing higher performance.





Under the construction plan, the plant will be ready to operate in the second half of 2019 and start global production starting in 2020. As mentioned earlier, Samsung's plant will use technology. EUV ultra-violet lithography prints, making the company's 7nm chip superior to 7nm chips from the main rival TSMC.

Currently, Samsung has a total of four semiconductor factories globally. Two in Korea (Giheung and Pyeongtaek) while the other two are overseas (Austin - Texas and Xian - China). In 2017, Samsung invested in the semiconductor business, reaching \$ 26 billion in revenue, setting a record high, mainly due to the market's huge demand for memory chips.

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