

Leaked information about the Snapdragon 1000, Qualcomm's own chip for Windows 10 laptops

The chip hopes to compete with Intel's Y and U-Series processors.

For more details about SDM100 or Snapdragon 1000, Qualcomm's new chip for laptops running Windows 10 has begun to rekindle.

Microsoft's development of Windows 10 running ARM saw the technology giant's collaboration with chip maker Qualcomm. The first Windows 10 ARM-based machines using the Snapdragon 835 processor with a Snapdragon 850-based design (like a Snapdragon 845 but faster, towards laptops) are expected to appear later this year. The Snapdragon 1000 will follow 850 feet.

The Snapdragon 1000 is said to be the most powerful laptop chip and will face Intel's code processor Y- and U-Series directly. These chips have a capacity of 4.5 W and 15W respectively, and are currently used on many Ultrabook tablets and laptops.



Qualcomm's new chip is exclusively for laptops running Windows 10

The Snapdragon 1000 is expected to have a separate 6.5W power from the CPU, the total power of the SoC is 12W. The Snapdragon 1000 test device has a 16 GB LPDDR4X RAM and a 128 GB UFS flash drive. It also has gigabit LTE connectivity, WiFi gigabit 802.11ad and a new power management driver.

The size of this chip is also large (20x15mm compared to the Snapdragon 850 is only 12x12mm), quite strange for laptop chips, the test system also uses socket-type processors, not welding. Socket chips are quite common on desktop or server computers, but mobile devices are often soldered because it will reduce chip thickness and equipment upgrades are rarely needed.

The chip is likely to use ARM's Cortex-A76 architecture and use TSMC's 7nm process. ARM hopes A76 will have the same power as Intel's Skylake U-Series processor from 2017. With a capacity of 12W, it will have the power corresponding to lower power levels, and despite being quite large with one ARM chip but it is still smaller than Intel's 45x24mm chips.

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