

## RK31xx series [\[ edit \]](#)

The **RK3188** was the first product in the RK31xx series, announced for production in the 2nd quarter of 2013. The RK3188 features a quad-core [ARM Cortex-A9](#) clocked up to 1.6 GHz frequency.<sup>[36][37]</sup> It is targeted at tablets and Android TV dongles and boxes,<sup>[22]</sup> and has been a popular choice for both tablets and other devices requiring good performance.

- 28 nm HKMG process<sup>[37]</sup> at [GlobalFoundries](#)<sup>[38]</sup>
- Quad-core [ARM Cortex-A9](#), up to 1.6 GHz
- 512 KB L2 cache<sup>[22]</sup>
- [Mali-400 MP4](#) GPU, up to 600 MHz (typically 533 MHz) supporting OpenGL ES 1.1/2.0, Open G 1.1<sup>[25][37]</sup>
- High performance dedicated 2D processor<sup>[37]</sup>
- DDR3, DDR3L, LPDDR2 support<sup>[37]</sup>
- Dual-panel display up to 2048x1536 resolution<sup>[37]</sup>

The **RK3188T** is a lower-clocked version of the RK3188, with the CPU cores running at a maximum speed of 1.4 GHz instead of 1.6 GHz. The Mali-400MP4 GPU is also clocked at a lower speed. As of early 2014, many devices advertised as using a RK3188 with a maximum clock speed of 1.6 GHz actually have a RK3188T with clock speed limited to 1.4 GHz. Operating system ROMs specifically made for the RK3188 may not work correctly with a RK3188T.<sup>[39]</sup>