

## MediaTek Preps 5G Chipset for Phones

Written by Frederick Douglas  
30. May 2019

---

MediaTek is all set for the arrival of 5G with a "groundbreaking" integrated chipset featuring a built-in Helio M70 modem, ARM Cortex-A77 CPU, Mali-G77 GPU and an advanced AI processing unit (APU) to power the smartphones of tomorrow.



**MediaTek | 5G SoC**  
**GROUND BREAKING HIGH SPEED 5G**

**Innovative 7nm FinFET**  
Built on the cutting-edge 7nm production process for big energy savings in a compact package.

**New AI Architecture**  
Sports an all new AI processing unit. APU 3.0 supports advanced AI applications, including imaging.

**Powerful Multimedia & Imaging Performance**  
Supports 4K video encode/decode at 60fps and super high resolution camera (80MP).

Multi-mode 5G chipset, with MediaTek Helio M70 5G modem built-in, boasts 7nm process and newest CPU, GPU and APU technology for a big power boost and super-fast connectivity

**Latest CPU Technology**  
MediaTek's 5G SoC is a performance powerhouse with new Arm Cortex-A77 CPU.

**State-of-the-Art GPU**  
A robust new Arm Mali-G77 GPU for extreme streaming and gaming experiences at 5G speeds.

**Speedy Throughput**  
A peak throughput of 4.7Gbps download (sub-6GHz) and New Radio (NR) 2 Component Carrier (CC) support. Supports non-standalone (NSA) and standalone (SA) 5G network architectures.

To learn more, visit  
<http://www.mediatek.com/5GSoC>

Copyright 2019 © MediaTek, Inc. All rights reserved.

**MEDIATEK**

The 7nm 5G system-on-chip (SoC) is for 5G standalone and non-standalone (SA/NSA) sub-6GHz networks, and supports connectivity from 2G to 4G to bridge existing network access while 5G networks roll out globally. The single-chip design promises to superior to two-chip solutions, since it allows for more power efficient performance.

The 5G modem handles download speeds of up to 4.7Gbps and upload speeds of 2.5Gbps, with intelligent power savings and comprehensive power management. The AI architecture supports applications such as image like de-blur, and the chipset can handle multimedia features such as 4K video encode/decode at 60fps and camera resolutions reaching up to 80MP.

## MediaTek Preps 5G Chipset for Phones

Written by Frederick Douglas  
30. May 2019

---

“Everything about this chip is designed for the first wave of flagship 5G devices. The leading-edge technology in this chipset makes it the most powerful 5G SoC announced to date and puts MediaTek at the forefront of 5G SoC design,” the company says. “MediaTek will power rollouts of 5G premium level devices.”

Go [MediaTek Unveils Groundbreaking New 5G SoC for First Wave of 5G Flagship Devices](#)