

# MediaTek Helio G80

Exciting Gaming, Boosted Clocks & HyperEngine Enhancements

MEDIATEK

**Ideal for everyday mobile gamers, the MediaTek Helio G80 brings powerful gaming to mainstream smartphone users through a high-performance mix of Arm Cortex-A75 and -A55 CPUs. The Arm Mali-G52 class graphics processor has peak speed of 950MHz, giving smartphones a highly responsive gaming experience. MediaTek HyperEngine technology provides whole smartphone enhancements for exciting, non-stop gaming.**

Brands can opt for a choice of multi-camera smartphones and large sensors for product differentiation. Meanwhile, its capable AI-camera enables useful functions like object recognition (Google Lens), smart photo album, scene detection and segmentation with background removal, and depth of field capture enhancements.

A leading inertial navigation engine continues to provide an accurate location when GNSS services are unavailable indoors, underground or driving through tunnels.

Dual 4G SIM enables more reliable coverage and consistent user experience, plus VoLTE/ViLTE services that provide the best possible call and live video experience, with faster call setup time and noticeably better sound quality. The G80 chip integrates a comprehensive 4G LTE WorldMode modem with support for global cellular services and features, plus MediaTek TAS 2.0 smart antenna technology built in.

An integral VoW (voice wakeup) hardware means platform size and power use is optimized for brands to build in support for voice assistant services.

## MediaTek HyperEngine

- Intelligent, ultra-fast prediction of Wi-Fi & LTE usage
- Faster response between smartphone and cell-tower
- Defer calls without dropping the data connection
- Intelligent, dynamic management of CPU, GPU and memory
- Smooth performance in sustained high-load situations

## Highly Capable Camera System

- 48MP Cameras
- 16+16MP (hardware dual camera)
- Single or dual camera bokeh (DoF)
- Hardware depth engine
- InstantAE, CCU, EIS, RSC accelerators
- Up to 240FPS recording

## MediaTek Helio G80

<b>CPU</b>	Octa-Core: 2x ARM Cortex-A75 up to 2.0GHz; 6x ARM Cortex-A55 up to 1.8GHz; 1MB L3 cache
<b>Memory</b>	2x LPDDR4x (Up to 8GB, 1800MHz); 1x LPDDR3 (933MHz, up to 4GB)
<b>GPU</b>	Arm Mali-G52 MC2 up to 950MHz
<b>Camera</b>	25MP @ 30FPS, 48MP 4-cell @ 17FPS, 16+16MP @ 30FPS
<b>Video Decoding</b>	2K @ 30FPS, FHD @ 60FPS, H.264/HEVC/VP9
<b>Video Encoding</b>	2K @ 30FPS, FHD @ 60FPS, H.264/HEVC
<b>Display</b>	2520 x 1080 (Full HD+) 21:9
<b>Storage</b>	eMMC 5.1
<b>Modem</b>	LTE Cat 7 (DL) / Cat-13 (UL) (FDD/TDD), DL/UL CA, TAS 2.0, HPUE, IMS (VoLTE/ViLTE/WFC), eMBMS, Dual 4G VoLTE (DSDS), Band 71
<b>Connectivity</b>	Wi-Fi 5, Bluetooth 5, GNSS options, FM
<b>MediaTek Technologies</b>	Low Power Sensor Hub, VoW, NeuroPilot, CorePilot, Pump Express