

# MediaTek Helio G85

1GHz GPU & MediaTek HyperEngine Enhancements for Gaming Greatness

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**The MediaTek Helio G85 pumps its Arm Mali-G52 GPU up to 1GHz, while MediaTek HyperEngine provides whole smartphone enhancements, blasting performance for avid mobile gamers. The octa-core CPU features two powerful Arm Cortex-A75 processors clocked up to 2GHz and six Cortex-A55 processors, with a large L3 cache for improved performance.**

Brands can embrace a wide mix of multi-camera options, plus AI-camera features like object recognition (Google Lens), scene detection, selective background removal, and depth of field capture enhancements.

Built-in VoW (voice wakeup) capability enables brands to easily add helpful voice assistant services directly into the Android OS.

The inertial navigation engine continues to provide an accurate location even when GNSS services are unavailable.

Dual 4G SIM enables more reliable coverage and consistent user experience, plus VoLTE/ViLTE services.

Wi-Fi 5 connectivity provides fast and reliable performance, while Bluetooth/Wi-Fi co-existence simplifies product design and assures a reliable connection.

## MediaTek HyperEngine

- Networking Engine
- Rapid Response Engine
- Resource Management Engine
- Picture Quality Engine

[Learn More](#)

## Multi-Camera System

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

## Boosted AI-Camera

- Object recognition (Google Lens)
- Smart photo album
- Scene detection & segmentation
- Depth of field enhancements

## MediaTek Helio G85

<b>GPU</b>	Arm Mali-G52 MC2 up to 1GHz
<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>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+) at 21:9
<b>Storage</b>	eMMC 5.1
<b>Modem</b>	LTE Cat 7 (DL) / Cat-13 (UL) (FDD/TDD) 2xCA, TAS 2.0, HPUE, IMS (VoLTE/ViLTE/WFC), eMBMS, Dual 4G VoLTE (DSDS), Band 71
<b>Connectivity</b>	Wi-Fi 5 (802.11 a/b/g/n/ac), Bluetooth 5.0, Multi-GNSS options, FM radio