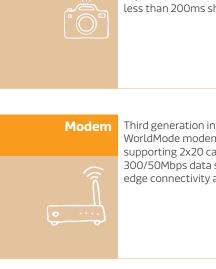
MediaTek helio P10

A premium performance platform for super-slim device designs from our powerful MediaTek helio family

MediaTek helio P10 is a high-performance, high-value SoC focused on the growing demand for slim form-factor smartphones that provide premium, flagship features. As the world's first product to use TSMC's 28nm HPC+ process, the MediaTek helio P10 allows for reduced processor power consumption, saving up to 30% energy compared to existing smartphone SoCs manufactured using the conventional 28nm process.

MediaTek helio P10

MEDIATE



Camera

21MP single camera/16MP + 8MP dual camera with the world's first TrueBright ISP engine for greater sensor light capture, enhanced color resolution, and less than 200ms shot-to shot delay.

Third generation integrated 4G WorldMode modem with LTE Cat-6, supporting 2x20 carrier aggregation with 300/50Mbps data speeds for cutting edge connectivity and transfer rates.

Up to 2 GHz, True Octa-core 64-bit Cortex-A53 CPU for fastest performance



Processing

in the mainstream segment.

Process	28nm HPC+
CPU	8x Cortex-A53, up to 2.0GHz
Memory	1x LPDDR3 933MHz up to 4GB eMMC 5.1
Camera	21MP@24fps 16MP@30fps w/ ZSD Dual ISP w/improved 3A/denoise/ demosaic/sharpness
Video Decode	1080p 30fps H.264/265
Video Encode	1080p 30fps H.264
Graphics	ARM Mali-T860 MP2 up to 700MHz
Display	FHD 1920x1080 w/ 12 Blending Layers
Modem	LTE FDD/TDD R11 Cat-6 with 2x20 CA (300/ 50Mbps), DC-HSPA+, TD-S CDMA, EDGE CDMA2000 1x/EVDO Rev. A (3.1/1.8Mbps, SRLTE) LTE/GPS Co-clock Supported
RF	Single RF for LTE 2x20 CA/WCDMA/TD/EDGE/ C2K 14/14 Primary/ Diversity RX Ports
Connectivity	Wi-Fi abgn w/ throughput up to 90Mbps

GPS / Glonass/Beidou TTFF & Drift, BT/FM



Powerful dual-core 64-bit Mali-T860 graphics core clocked at up to 700MHz, delivering an uncompromised user experience.



MediaTek helio P10

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(continued)



Audio

Full HD display at 60FPS with MediaTek's suite of MiraVision 2.0 display technologies, including UltraDimming, BluLight Defender, and Adaptive Picture Quality.

Hi-fidelity, hi-clarity audio with

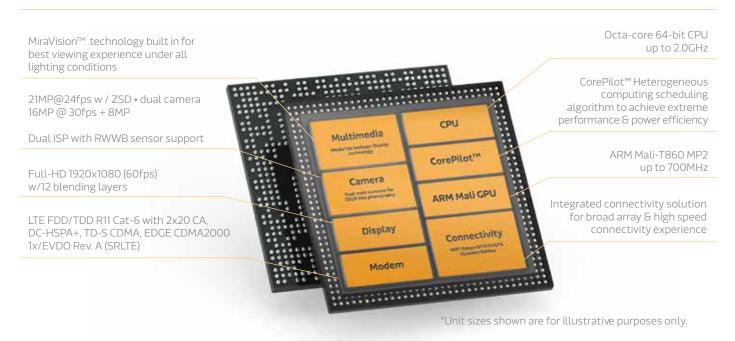
audio performance.

110dB SNR & -95dB THD to meet consumer demand for superior



LG X POWER[™] for Sprint and Boost Mobile

Figure 1. MediaTek helio P10 System Architecture



Product brief data based on MediaTek helio P10 MT6755. Features and specifications may vary for other chip variants (MT6755M).

For more information, visit **mediatek.com**

