MT8167S Platform is a highly integrated solution for wireless connected multimedia systems incorporating a power efficient Quad-core Arm® Cortex®-A35 processor operating at 1.3 GHz and powerful Imagination Technologies PowerVR™ Series8XE GPU. The support for various DRAM interfaces (LPDDR3, DDR3L, DDR4) and Flash storage solutions (e•MMC™, Raw NAND) provides high flexibility in the memory configuration. With several I2S interfaces as well as 8-channel TDM audio input and 8-channel TDM audio output MT8167S can process algorithms for multiple high-resolution audio streams at the same time. This rich set of interfaces is also providing a system BOM cost reduction by eliminating the need of external DSP solution.

MT8167S paired with MT7668 offers a complete Connected Platform. The MT7668 connectivity chipset is combining a dual-band 2x2 802.11ac Wi-Fi with MU-MIMO and the latest Bluetooth® 5 wireless technology together in a single package. The optimized RF architecture and baseband algorithms provide superb performance and low power consumption. MT7668 is designed to meet a diverse set of home connectivity needs. It can stream high definition multimedia with low-latency over 802.11ac Wi-Fi at up to 867Mbps to/from home or mobile devices or multimedia equipment.

MT8167S Platform power management solution is based on MT6392 PMIC supplying various power rails for the platform chipsets and other system needs.

### MT8167S

<table>
<thead>
<tr>
<th><strong>CPU</strong></th>
<th>64-bit Quad-core Arm Cortex-A35 up to 1.3 GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GPU</strong></td>
<td>IMG GE8300, 125MTr/s, 2.0Gpix/s</td>
</tr>
<tr>
<td><strong>Video</strong></td>
<td>Decode H.264/HEVC 1080p@60fps, encode H.264@720p</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>32-bit LPDDR3/DDR3L up to 800 MHz 32-bit DDR4 up to 667 MHz</td>
</tr>
<tr>
<td><strong>Flash</strong></td>
<td>e•MMC SLC NAND</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>SD Card</td>
</tr>
<tr>
<td><strong>Interfaces</strong></td>
<td>I2C, UART, SPI, SDIO3.0, USB2.0 OTG and Host, Ethernet</td>
</tr>
<tr>
<td><strong>Audio Codec</strong></td>
<td>Integrated audio stereo ADC and stereo DAC</td>
</tr>
<tr>
<td><strong>Audio Inputs</strong></td>
<td>Up to 3 analog or 2 digital microphones 8-channel TDM for microphone-array I2S x2 S/PDIF</td>
</tr>
<tr>
<td><strong>Audio Outputs</strong></td>
<td>Line Out 8-channel TDM I2S x2 S/PDIF</td>
</tr>
<tr>
<td><strong>Connectivity</strong></td>
<td>Dual-band 2x2 802.11ac Wi-Fi Bluetooth 5</td>
</tr>
</tbody>
</table>

- Quad-core Arm® Cortex®-A35 processor operating at 1.3 GHz with DVFS
- Most power efficient 64-bit Armv8-A processor with full Armv7-A compatibility
- Arm® NEON™ advanced SIMD extension
- Wake-word engine
- Far-field
- Beamforming
- Acoustic Noise Reduction
- Acoustic Echo Cancelling
- TDM interface to up to 8-channel DAC
- Dual-band (2.4 GHz and 5 GHz) 2x2 802.11ac Wi-Fi with MU-MIMO
- Bluetooth 5

For more information, visit mediatek.com
MT8167S Platform
Wireless Connected Multimedia Solution

BENEFITS
- Quad-core Arm Cortex-A35 64-bit processor
- Powerful GPU with Vulcan 1.0 and OpenCL 3.0 support
- Dual display support with MIPI and HDMI outputs.
- Dual MIPI CSI camera interfaces
- Flexible DRAM and Flash memory interfaces
- Integrated stereo audio codec
- Rich audio interfaces to support various microphones and speakers configurations
- Multi-channel high-resolution audio up to 192kHz/24-bit
- 10/100 Ethernet MAC with RMII interface
- Advanced Wi-Fi/Bluetooth connectivity

APPLICATIONS
- Voice Assistant with Display.
- Digital Signage
- Point of Sale
- Control System
- Surveillance Camera
- Internet of things