

MediaTek Genio 360

Value tier IOT platform with GenAI capability and big-core computing

High-performance, Low-power Computing Performance

Hexa-core CPU configuration enables high-performance single-core Cortex-A76 computing balanced with a 5-core Cortex-A55 cluster for sustained multi-core processing.

- 1x Arm Cortex-A76 big-core, up to 2.0GHz
- 5x Arm Cortex-A55 cluster, up to 2.0GHz
- Support for x32 LPDDR4x @ 3733Mbps, up to 8GB
- Advanced 6nm process technology

Edge GenAI Acceleration

Integrated NPU for edge GenAI acceleration that enables GenAI acceleration for LLMs and transformer models and real-time, low-latency AI inference at the edge.

- MediaTek 8th generation NPU (5.1 TOPS)
- Total system capable of 6 TOPS
- On-device GenAI edge acceleration (with models under two billion parameters)

Industrial and Enterprise IoT Ready:

Support for necessary operating temperatures and guaranteed longevity of supply.

- Consumer temperature (-20°C to +95°C T_j) option
- Industrial temperature (-40°C to +105°C T_j) option
- Long 10-year product supply commitment



Rich Operating System Support:

Supports popular OSes that allow easy development and deployment on demanding edge applications

- Android
- Yocto Linux
- Ubuntu

Diverse Interfaces & Rich I/O:

The Genio 360 platform enables a wide variety of system expansion possibilities with a rich I/O capability.

- PCIe Gen 2 interface with Wake on WLAN support
- Dual USB 2.0 (Host) interfaces
- Single USB 3.2 Gen1 (Host) interface
- GbE MAC with TSN support integrated
- 1x CAN-FD Interface
- Multiple UART, I2C, I3C, SPI and PWM I/O
- Rich audio interfaces – I2S/TDM, PDM and PCM input/outputs
- Integrated 1x1 Wi-Fi 5 and Bluetooth 5.3 baseband (External RF)

Rich Multimedia Capability

The platform enables a rich multimedia experience with support for a single or dual displays, high-resolution camera and video encode/decode.

- Dual display capability (FHD60 + FHD60)
- Single display up to 4K at 60 Hz
- 4K30 video decode (H.264/H.265/VP9)
- 16MP @ 30fps camera support
- Up to 6xFHD30 camera virtual channels

Scalability

In addition to Genio 360, Genio 360P provides a higher CPU/AI performance tier and is positioned as an upgrade scalability path for Genio 360.