MediaTek Genio»

Genius At The Edge

MediaTek designs are proven, high-performance IoT SoCs that enable our partners to develop smart modules for leading manufacturers of consumer, enterprise and industrial IoT solutions. We provide our customers the cutting-edge technology and world-class product support that empowers them to innovate confidently and bring new products to market faster.

High Performance – Low Power
MediaTek offers a robust portfolio of power-efficient, high-performing IoT SoCs that enable our customers to optimize their product portfolios for demanding applications.

Connectivity
MediaTek offers developers and manufacturers the latest Wi-Fi protocols and Sub-6GHz 5G technologies for industrial, consumer and enterprise applications, enabling anywhere, anytime connectivity.

Security
MediaTek is committed to providing highly secure IoT SoC that designers can rely on to develop products their customer's trust.

Product Longevity
MediaTek Genio SoCs are designed for longevity using industry-standard products. We provide long-term support for operating system updates and security patches that extend the product lifecycle.

AI-powered Advanced Multimedia
Multimedia requires higher CPU and GPU power and sophisticated, advanced processing at the edge to produce fast, accurate results. MediaTek integrates AI cores and accelerators that enhance intelligent autonomous capabilities at the edge.
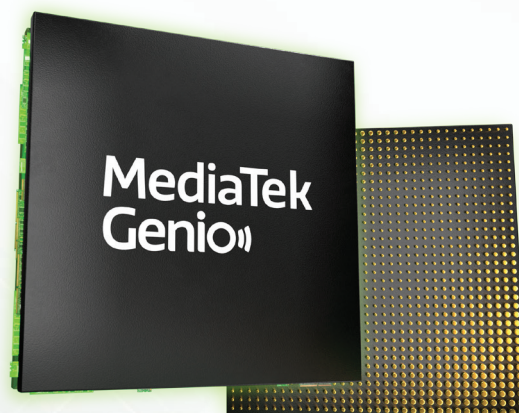
One Platform, Multiple Applications
MediaTek offers an open standards platform for the development of industry, commercial and enterprise IoT applications, reducing development costs and enabling faster time to market.

About MediaTek
MediaTek Incorporated (TWSE: 2454) is a global fabless semiconductor company that enables nearly 2 billion connected devices a year. We are a market leader in developing innovative systems-on-chip (SoC) for mobile device, home entertainment, connectivity and IoT products. Our dedication to innovation has positioned us as a driving market force in several key technology areas, including highly power-efficient mobile technologies, automotive solutions and a broad range of advanced multimedia products such as smartphones, tablets, TVs, 5G, Chromebooks, Voice Assistant Devices (VAD) and wearables.

	MediaTek Genio 350	MediaTek Genio 500	MediaTek Genio 1200
Process	14nm	12nm	6nm
CPU	4x CA53(2.0GHz)	4+4 CA73(2.0G)/A53(2.0G)	4+4 CA78(2.2GHz)/CA55(2.0GHz)
GPU	Mali-G52	Mali-G72 MP3	Mali-G57 MC5
APU	1x VP6	2x VP6	2x MDLA2.0 + 2x VP6
Memory	DDR3L/DDR4/LP3/LP4, up to 4GB	LP3/LP4(x), up to 8GB	4-ch LP4(x), up to 16GB
Storage	eMMC5.1	eMMC5.1, UFS2.1	UFS2.1, eMMC5.1
Display	Dual Display, FHD60/HD60 MIPI-DSI + LVDS/DPI	FHD(2400x1080) Portrait MIPI-DSI + DPI	Dual Display, 4K60+4K60 MIPI-DSI/eDP + HDMI/DP
Video Input	2x MIPI CSI-2	3x MIPI CSI-2	4K90, AV1/VP9/H.265/H.264
VDEC	1080P60, H.265/H.264/VP9	1080P30, H.265/H.264	1080P60, H.265/H.264/VP9
VENC	1080P60, H.265/H.264	1080P30, H.264	4K60, H.265/H.264
Peripheral	2x USB2(1xOTG, 1xHost), 3x UART, 4x I2C 10/100 Ethernet MAC	1x USB3/USB2 OTG, 3x UART, 6x I2C	1x PCIe3.0, 1xPCIe2.0/USB3.1, 1x USB3.1, 2x USB2.0, 6x UART 1x GbE MAC (TSN)
Temperature	-20~65C (Ta)	-20~65C (Ta)	-40~105C(Tj)

Smart Home

Smart Fitness | Smart Appliance
- Full codec for video streaming
- Wi-Fi/BT connectivity
- Camera & ISP
- Android S/W support

- Edge AI
- Wi-Fi 6 connectivity

AIDC(Handheld)

Logistics | Warehouse
- LTE/Wi-Fi connectivity
- Low power
- Android S/W support

- 5G/Wi-Fi 6 connectivity

Smart Retail

Payment POS | Desktop POS
- Low Power
- Ethernet/Wi-Fi connectivity
- Security

- Vision AI
- Flexible Software

Industrial IoT
- Product Longevity
- Wide temperature range
- Reference design enhancement
- Key features enablement

Robotics
- High Performance & Low power
- Advanced AI & ISP
- 5G/Wi-Fi 6 connectivity

TSN | arm SystemReady | Android | Yocto Linux | Ubuntu | NeuroPilot | 5G | Wi-Fi 6