The MediaTek Genio 700 (MT8390) is a high-performance edge-AI IoT platform designed for smart home, interactive retail, industrial and commercial applications. It provides highly responsive edge processing, advanced multimedia capabilities, and can multi-tasking OS with a wide range of sensors and connectivity options.

**Ideal Applications**
High performance combined with exceptional power efficiency enables product designers to use fanless enclosures or even off-grid power solutions for more application opportunity.
- Smart Retail: Digital signage, desktop POS
- Industrial: Edge AI, IoT gateway, HMI
- Smart Home: Fitness, smart home appliances

**Superb Edge Performance, Exceptional Power Efficiency**
A power-efficient SoC containing high performance octa-core CPU and graphics engine, dedicated multi-core AI processor, and superfast memory support.
- 2X Arm Cortex-A78 CPUs
- 6X Cortex-A55 CPUs
- Arm Mali-G57 GPU MC3
- Quad-channel LPDDR4X memory
- TSMC 6N (6nm class) chip

**AI performance**
The highly efficient in-chip AI multi-processor (APU) is useful for Deep Learning (DL), Neural Network (NN) acceleration, and Computer Vision (CV) applications.
- 4 TOPS
- MediaTek DLA + VP6
- MediaTek NeuroPilot SDK
- INT8, INT16 + FP16 capable

**Advanced Multimedia**
Drive 4K or multiple displays, high performance video codecs, and employ high detail cameras – ideal for interactive applications, streaming video services, and video conferencing.
- 4K display ready
- Dual display support
- Video encoding up to 4K 30fps with HEVC
- Video decoding up to 4K 75fps
- AV1 hardware decoding engine
- 32MP @ 30fps camera ISP

**Secure, Long-life Platform Commitment**
MediaTek provides secure, Enterprise and industrial-ready platforms suitable for device makers to use in next-generation industry 4.0 applications.
- Arm SystemReady certification
- Arm PSA certification for security
- Wide-temperature operation -40~105°C(Tj)
- 10 year commitment

**Connectivity & Interfaces**
Device makers can build on the platform according to application and situational needs via common interfaces, and add connectivity via MediaTek’s wide array of market-ready wireless connectivity add-in options.
- PCI-Express
- USB
- Gigabit Ethernet
- Optional Wi-Fi/5G

**Multi-tasking OS’ & AI SDK ready**
This high-performance platform supports multi-tasking capable OS allowing easy development and deployment of demanding edge-processing applications.
- Android
- Yocto Linux
- Ubuntu
- NeuroPilot SDK