

VIA's Smart Security Solutions Transform Building Security with MediaTek's Genio 350 SoC

Smart Security, Connected Living, Streamlined Operations

Case Study

Application

Security Technology

Background

High-rise apartment complexes and commercial buildings are abuzz with constant visitor movements creating security challenges. Outdated intercom systems and manual security protocols leave security personnel grappling with monitoring multiple entry points in real-time. Residents, too, lack the tools for effective visitor verification, especially when they are away.

VIA Technologies addressed these challenges by developing a smart Video Intercom and Access Control System, powered by MediaTek's Genio 350 SoC, offering a secure, efficient, modern solution.

Challenge

- Real-time video capabilities for visitor verification
- Centralized monitoring to manage multiple visitor entry points
- Two-way communication between residents and visitors
- Remote access control via smartphone apps for convenience and enhanced security

Results

- **Enhanced security** with residents being in full control of visitor verification and access using real-time video stream.
- **Streamlined efficiency for security staff** with centralized monitoring of multiple entry points, direct communication channels, and quick response times.
- **Lag-free real-time video communication** enables smooth two-way interaction between residents and visitors for faster access decisions.
- **Superior image clarity** empowers residents and staff to accurately identify visitors, even in low light or fast-motion conditions.



Solution Partner

VIA Technologies Inc. provides innovative AI, IoT and technology solutions for a wide range of industries, including consumer electronics, healthcare, industrial automation, and telecommunications.

Solution

VIA Technologies selected MediaTek's Genio 350 System on Chip (SoC) for their connected Video Intercom and Access Control Solution. The high-performance, low-power platform offers seamless connectivity and rich multimedia support, while integrating application processing and smart mobile applications. The quad-core Arm® Cortex®-A53 CPU provides the necessary computing power for real-time video streaming and audio communication without lag.

How Does MediaTek's Genio 350 SoC Meet the Requirements?

- **Real-time Video and Audio Processing:** The quad-core CPU and integrated GPU of Genio 350 SoC support video live streaming, two-way communication, and HD displays for easy visitor identification. Connectivity features like Ethernet, USB, Wi-Fi and Bluetooth ensure lag-free, smooth, two-way communication between the access control system and residents' smartphones.
- **Advanced Camera Features:** With technologies such as Auto Exposure, Auto Focus, Auto White Balance (3A), Noise Reduction (NR), AI-based Face Detection (AI-FD), and Warp Engine, the Genio 350 enhances video quality for clear visitor identification.
- **Remote Access Control:** The low latency and reliable processing of Genio 350 enables residents to manage visitor access remotely through smartphone apps, ensuring responsiveness.
- **Integrated Platform for Security Professionals:** The Genio 350 enables centralized management of multiple entry points through integration with broader systems.



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MediaTek Genio 350 SoC



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