Success Stories

The Heart of Intelligent Home Automation

Winmate 7" ARM Full IP65 PCAP Panel PC in Home Automation Application

Background

In the face of escalating demands for intelligent home control, a home automation solution provider sought a resilient solution that could seamlessly integrate into diverse environments, controlling lighting, security, and energy management. The challenge was to find a robust and adaptable solution capable of meeting these varying control requirements.

Core Product

- W07IM3S-GST1 - 7-inch ARM A53 G-WIN GS-Series Full IP65 PCAP Panel PC

Main Challenges

The diverse control requirements within home automation, spanning lighting, security, and energy management, posed a challenge in creating a unified solution that could effectively coordinate these functionalities. Balancing functionality with a user-friendly interface was crucial to ensure widespread adoption and ease of use.
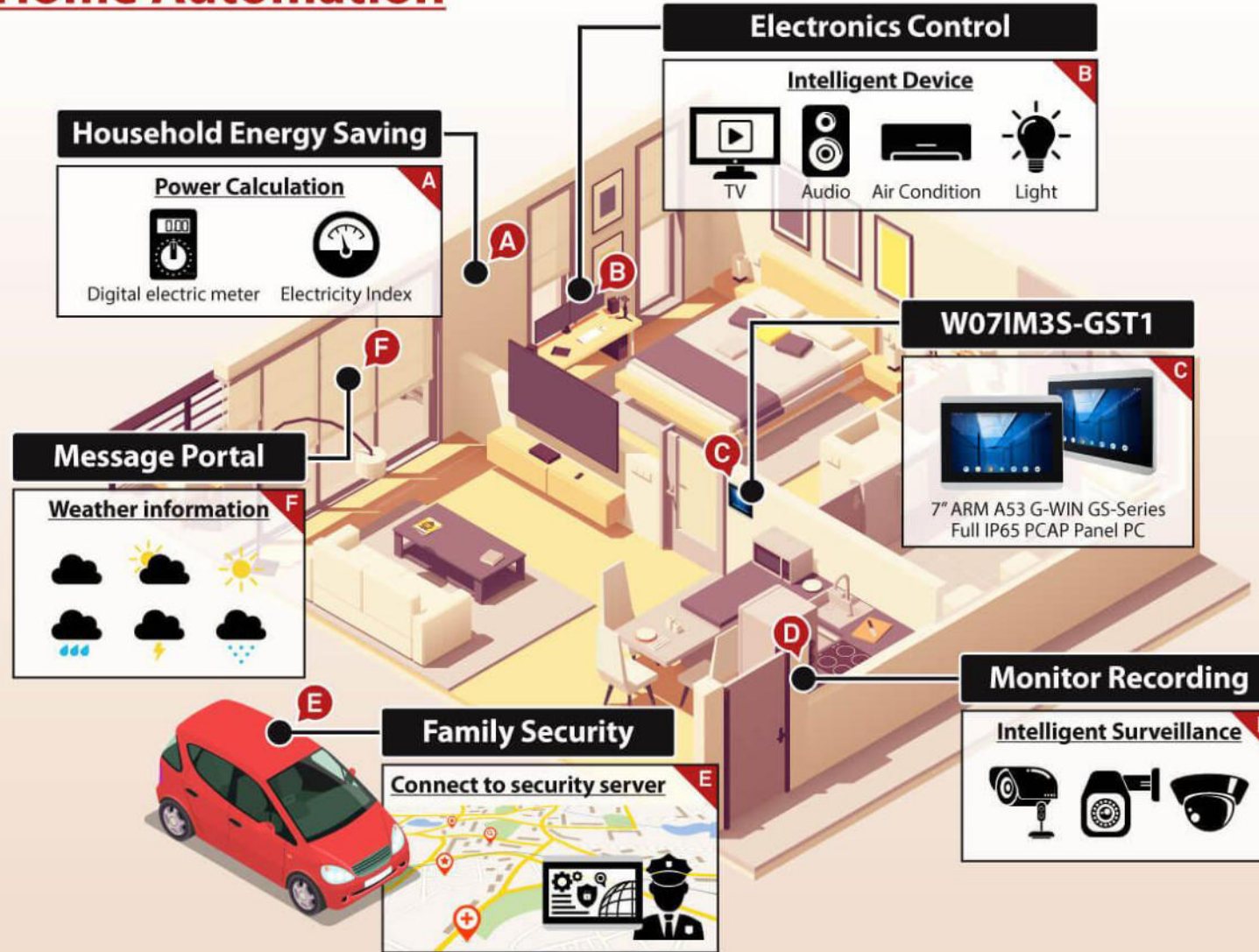
The variability in environmental conditions, despite the Full IP65 protection, required meticulous design considerations to guarantee the Winmate panel PC's performance and durability under different circumstances. Achieving ultra-low power consumption while maintaining high processing power was also a challenge, demanding a delicate balance for efficient operation without adding a significant load to the home's energy consumption.

Why Winmate

The Winmate 7" ARM A53 G-WIN GS-Series Full IP65 PCAP Panel PC emerged as the ultimate solution. Featuring a 7" 1024 x 600 P-CAP touchscreen, an ARM A53 Quad Core 2.0GHz processor, and a fanless cooling system with ultra-low power consumption, this panel PC offers not only responsive touch capabilities but also powerful and efficient processing. Designed with a comprehensive IP65 protection rating, this panel PC ensures resilience against moisture, dust, and splashes. The onboard 32GB eMMC and 4GB LPDDR4 further contribute to its efficiency. With connectivity options including 1 x LAN, 1 x RS232, 1 x USB, 1 x Micro USB, and 1 x Micro SD, it proves to be a versatile and adaptable solution for various home automation scenarios.

Application Diagram

Related Product

Winmate **W07IM3S-GST1**

- 7" ARM A53 G-WIN GS-Series Full IP65 PCAP Panel PC

- 1024 x 600 with PCAP touchscreen

- ARM A53 Quad Core 2.0GHz

- Fanless cooling system and Ultralow power consumption

- Full IP65

- Onboard 32GB eMMC

- Onboard LPDDR4 4GB

- 1 x LAN, 1 x RS232, 1 x USB, 1 x Micro USB, 1 x Micro SD

- Support Android or Linux operating system