

Home Distribution Box Chip Model



Article Overview

Many modern smart home distribution boxes, such as KinCony panels, use the ESP32-S3-WROOM-1U Wi-Fi chip (N16R8) as their main controller.

Chip Models in Smart Distribution Boxes

The KinCony Smart Distribution Box series, including 32-channel and 16-channel models, primarily uses the ESP32-S3-WROOM-1U (N16R8) Wi-Fi chip for intelligent control and connectivity . This chip enables:

- Wi-Fi connectivity for remote control via mobile apps or cloud platforms
- Relay control for multiple channels (e.g., 32 relays in the B32M controller)
- Local automation even without internet access
- Integration with smart home ecosystems like Tuya, Alexa, and Google Assistant

Other models, such as Raspberry Pi-based distribution panels, use the Raspberry Pi CM4 module as the main processor, providing a Linux-based platform with multiple relay outputs and digital input ports . These boards are suitable for more advanced automation and IoT integration.

Features Enabled by These Chips

- Remote and local control of AC circuits
- Energy monitoring with CT sensors
- Voice control through popular smart speakers
- MQTT and Home Assistant integration for open IoT communication
- Automation logic for lighting, appliances, and industrial applications...

Article Content

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Electric Distribution Box

A distribution board (also known as panelboard, breaker panel, electric panel, DB board or DB box) is a component of

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Integrated circuit

A microscope image of an integrated circuit die used to control LCDs. The pinouts are the dark circles surrounding the integrated

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