

Porting of Smart Home Device Zigbee Bridge Firmware to ESP32

The project is focused on porting the Zigbee Bridge Firmware, developed for a Smart Home Device, from ESP8266 to ESP32, aiming to enhance its capabilities and compatibility for improved performance and functionality.

- Successfully ported the Zigbee Bridge Firmware from ESP8266 to the ESP32 platform.
- Porting MQTT functionality and conducting testing to ensure its proper integration.
- Porting mDNS (Multicast DNS) functionality and performing testing to verify its functionality.
- Packaging the NCP App with the existing firmware and testing the packaged binary file.
- Implementing an NCP update mechanism for firmware updates.
- Developing API endpoints and a WebUI (Web User Interface) for enhanced user interaction and control.



Applications:

- IoT
- Home Automation

Technologies Used:

- Development Platform: PlatformIO
- C programming language
- ESP32 & ESP8266
- Zigbee
- MQTT
- mDNS