

Matter enabled Home Automation devices using STM32U5 & Talaria TWO Wi-Fi SoC/Module

Integrate Matter Protocol & IoT Cloud Connectivity to STM32U5-Based Designs

InnoPhase IoT and ST Microelectronics have partnered to develop a reference solution using STM32U575ZI-Q Development board and Talaria TWO INP3014 EVK targeting Matter certified battery-operated home automation devices, sensors and smart appliances

- ✓ Ultra-Low-Power (ULP) Wi-Fi & MCU enables 2-4X improvement in battery life
- ✓ Integrated BLE used for device discovery and commissioning.
- ✓ Offloading Matter stack and Cloud SDKs on Talaria TWO free's up STM32 MCU for custom application.
- ✓ Works with Amazon Alexa, Apple HomeKit, Google Home, and Samsung SmartThings.
- ✓ PSA Level 3 Certified solution protects from cyber and side-channel hardware attacks.

Get to market quickly with hardware, software SDK, reference applications and design files to give your product design a head-start.



10+ Year Battery Life*



Device Interoperability



Fast Time-to-Market

Home Automation Sensors Door-locks Smoke Alarms Temperature Control Units Smart Lighting

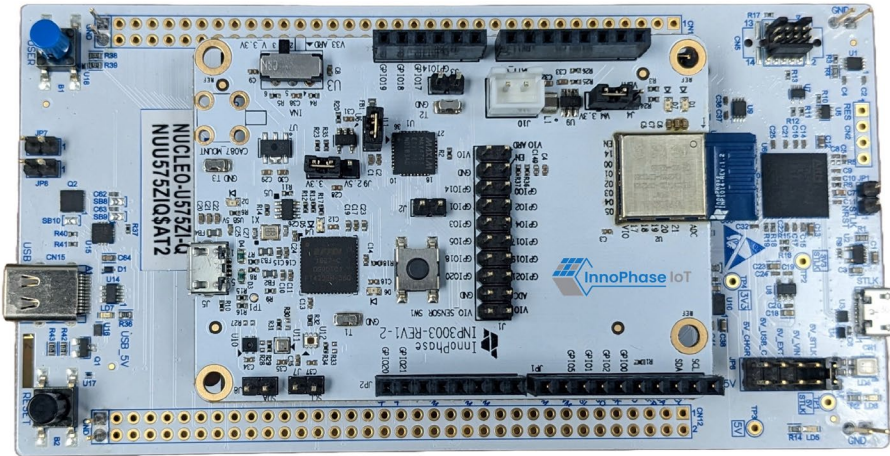


matter

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Talaria TWO & STM32U575ZI-Q Low Power Matter v1.2 Solution

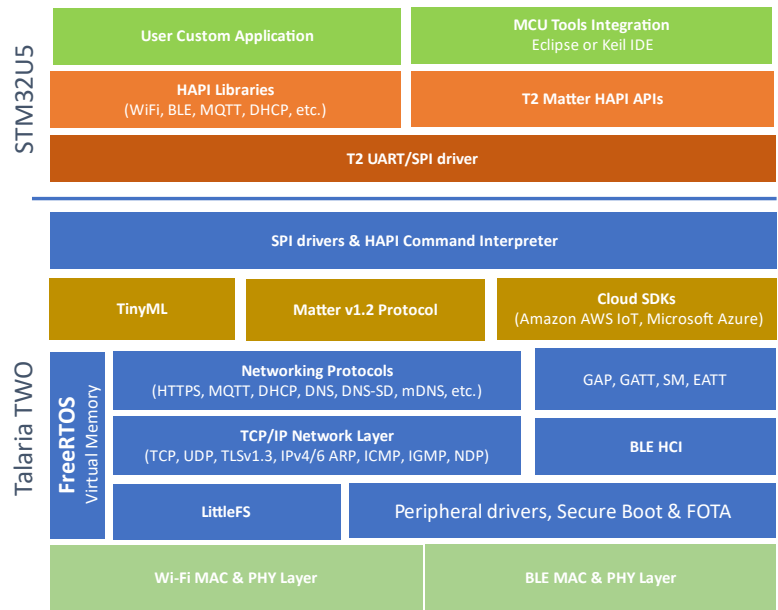


STM32U575ZI-Q Nucleo-144 Development Board

InnoPhase IoT INP3014 Evaluation Board

Fully Integrated Matter Software SDK

- Matter v1.2 certified solution
- Works with Amazon Alexa, Apple HomeKit, and Google Home
- Device discovery and commissioning over BLE & IP based device discovery
- Reference Matter 1.2 device profiles
- Software Packages:
 - Talaria TWO FreeRTOS SDK
 - Wi-Fi & BLE stack
 - Networking protocols
 - Amazon AWS, Microsoft Azure, MQTT, HTTP & WebSocket
 - Matter v1.2 stack
 - Host Application Interface (HAPI)
 - STM32Cube IDE software package
 - SPI driver for Talaria TWO Interface
 - HAPI libraries for Matter & Cloud connectivity
 - Reference applications



InnoPhase IoT Matter Software Stack

Contact InnoPhase IoT at sales@innophaseiot.com for a demonstration and access to Talaria TWO Matter SDK

Visit: <https://innophaseiot.com/solutions/matter> for more information

* Based on 3000mAh battery