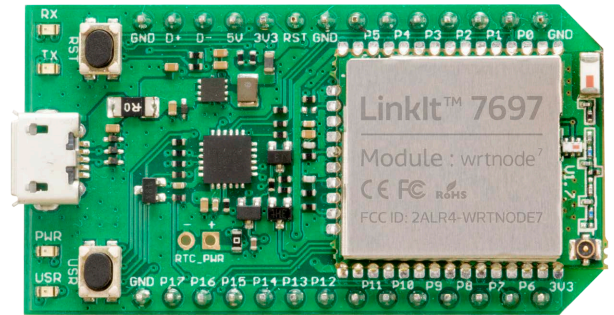# LinkIt 7687 HDK Product Brief

Description

MediaTek LinkIt™ 7697 HDK is an IoT development platform for RTOS based on MediaTek MT7697, a highly integrated SOC that features an ARM® Cortex®-M4 with floating point unit microprocessor that operates at up to 192MHz with low-power 1x1 802.11 b/g/n 2.4GHz Wi-Fi and Bluetooth Low Energy support. This HDK is compact in size but includes all the necessary pin-breakouts to integrate a variety of peripherals and enable development of highly connected applications.

Supported Features

- ARM® Cortex®-M4 with FPU operating at up to 192MHz
- 802.11 b/g/n 2.4GHz Wi-Fi
- Bluetooth 4.2 Low Energy
- 352KB RAM
- 4MB flash storage
- Onboard UART-USB convertor (CP2102N)
- Micro-USB port supports
    - Flash programming
    - UART
    - 5V power source
- Antennas
    - Onboard SMD antenna
    - IPEX connector for external antenna (requires rework)
- Peripheral interfaces
    - GPIO (18)
    - UART (2 sets)
    - I2C (1 set)
    - SPI (1 set)
    - EINT (4)
    - ADC (4)
    - PWM (18)
    - IR (1 set)
    - I2S (1 set)
    - SWD (1 set)
- Power Sources
    - Micro-USB port (5V)
    - 5V pin
    - 3V3 pin

- LEDs
    - UART TX LED
    - UART RX LED
    - PWR LED
    - USR LED
- Buttons
    - Reset
    - User configurable
- Breadboard compatible pin pitch (2.54 mm)
- Size: 48 x 26 mm (1.88 x 1.02 inches)
- Supports FreeRTOS with LinkIt SDK
- Add-on package supporting Arduino IDE
- FCC/CE/NCC certified