Key Product Features

Complete Talaria TWO system integrated into a solder-down module with the following wireless and processing features:

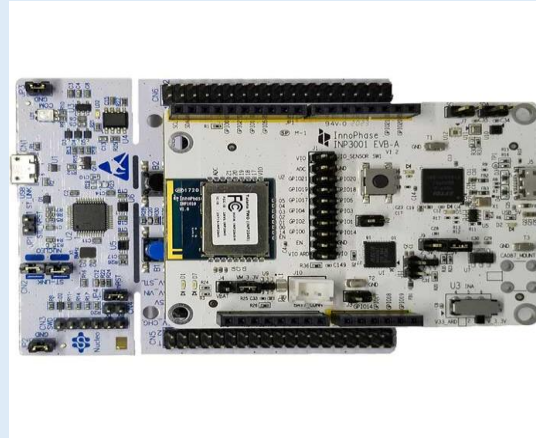| Feature	Specification
WiFi Technology	802.11 b/g/n up to MCS7, Single-Stream (1x1)
Bluetooth Technology	BLE5.0 w/ Advanced Features: 2Mbps PHY, LE Coding (Long-Range), Extended Advertising
Frequency Band	2.4GHz
Application Processor	Arm Cortex-M3, 80MHz
Embedded Memories	512KB SRAM, 2MB Flash
Host Interface Options	UART, SPI (slave)
Twelve (12) Configurable GPIOs	GPIO, PWM, PDM, SPI, SDIO, UART, JTAG, I2C, I2S and Tx Console
ADC Input	10-bit SAR, Internal Fixed 1.0V Reference Voltage
Hardware Based Security	PUF (Physically Unclonable Function), Crypto Engines, Secure Boot
Functional modes	Hosted Mode (with external MCU), Hostless Mode (without external MCU) or Hybrid Mode (low power system monitoring & wakeup on Talaria TWO MCU, higher power processing on external MCU/GPU)
Wi-Fi Active Mode Power/Performance (@3.6V)	31mA (Rx Mode @ 1Mbps 802.11b), 178mA (Tx Mode @ 1Mbps 802.11b +17.5dBm)
Wi-Fi Power Save Mode 802.11b, 1Mbps (Clean Environment, @3.3V)	57uA (DTIM10
Deep Sleep Mode (@3.3V, Memory Retained)	11-19uA (RTC, memory retained, depends on amount of SRAM retained)
Temperature Range	-40C to +85C

INNOPHASE EVB&APPLICATION DEVELOPMENT Kits

	INP1010	INP1011	INP1012	INP1013	INP1014	INP1015
Product Image						
Antenna	PCB Antenna	u.fl Connector	RF Pad	Ceramic Chip Antenna	PCB Antenna	u.fl Connector
Pins	Castellated Pins	Castellated Pins	LGA Pads	LGA Pads	LGA Pads	LGA Pads
Dimensions (x,y,z - mm)	19.1 x 21.6 x 2.5	19.1 x 21.6 x 2.5	12.8 x 15.0 x 2.5	12.8 x 20.0 x 3.1 (height @ antenna)	12.8 x 20.0 x 2.5	12.8 x 17.0 x 2.5
Features	Pins Accessible for Debug	Pins Accessible for Debug	Smallest Size	Reduced Footprint Smallest Keepout Area	Reduced Footprint	Reduced Footprint
Applications	General	General w/ Remote Antenna	Industrial (w/ SMA), Devices Requiring a Specialized Antenna	Small Form-Factor	Small Form-Factor	Small Form-Factor w/ Remote Antenna
EVB	INP3010 includes INP1010 w/PCB antenna	INP3011 includes INP1011 w/u.FL connector	INP3012 inludes INP1012 w/RF Pad	INP3013 includes INP1013 w/Chip Antenna	INP3014 includes INP1014 w/PCB Antenna	INP3015 Includes w/u.FL connector

Temperature & Humidity (Sensirion SHTC3) Pressure (Bosch BMP388) Light (TI OPT3002)
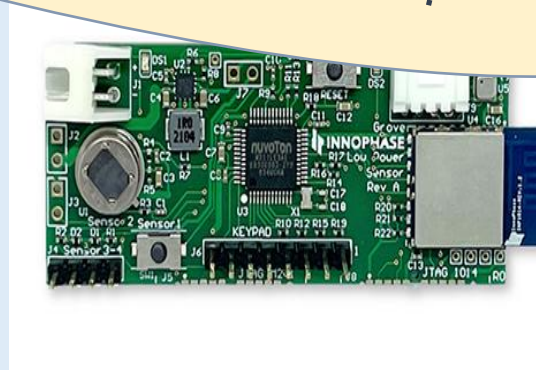
STM32L4 + TALARIA TWO

Quickly Integrate Wi-Fi&
Cloud Connectivity to
Existing STM32L4-Based
Design

MICROSOFT AZURE CLOUD CONNECTIVITY
  Complete, pre-valida ted
solution
  for Microsoft Azure

IOT DEVICE PROVISIONING USING BLE5 SOFTWARE SOLUTION
  Allows Easy Provisioning of IoT
Cloud-Connected Device

AWSやAzureなど、クラウドへセンサやビデオ
データなどの送信機能リファレンス提供！！

Sensor-to-Cloud Application Development Kit

Talaria TWO sends sensor
data to the cloud, runs on
2x AAA's for over 2 years

AMAZON WEB SERVICES (AWS) CLOUD CONNECTIVITY SOLUTION
  Quickly Connect Your Design to
the
  AWS IoT Core