InnoPhase IoT

# Smart Wireless Video Platform
## Ultra-Low Power Wi-Fi Video Processor

### Accelerating Time-to-Market for Battery-Based Wi-Fi Video Cameras

InnoPhase IoT and Lumissil/Ingenic have partnered to develop the industry's leading smart wireless video solution. The system combines the InnoPhase IoT Talaria TWO™ ultra-low power Wi-Fi module and Ingenic's T41 Video Processor with deep learning algorithms to create a cutting-edge solution.

✓ Ultra-Low-Power (ULP) Wi-Fi at BLE power levels enables 2-4X improvement in battery life.

✓ Off-loading of cloud connectivity stack and local events monitoring when ISP is powered down to conserve power.

✓ Supports up to 4K camera resolution.

✓ Wi-Fi provisioning using integrated BLE.

Get to market quickly with application development kit that include hardware, software and design files to give your product design a head-start.

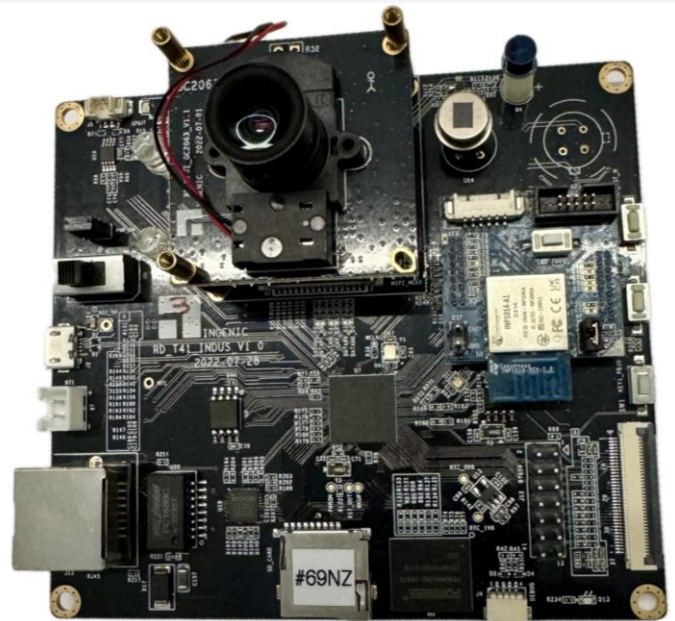**1+ Year Battery Life***

**Pre-Integrated Hardware & Software**

**Fast Time-to-Market**

**Battery-Based Wi-Fi Cameras**   **Video Surveillance**   **Baby Monitors**   **Video Doorbells**   **Event Monitoring**

InnoPhase IoT, Inc.
2870 Zanker Road, Suite 200, San Jose, CA 95134
innophaseiot.com

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## T41 Indus+Talaria TWO InnoPhase IoT Low-Power Wi-Fi Video Camera

- Battery-operated Wi-Fi video camera
- **Ingenic T41 ISP + Talaria TWO INP1014 Module**
- 1080P CMOS Image Sensor, Microphone & Speakers, LEDs
- USB-C connector and battery connector power supply options
- T41 shut-off control by Talaria TWO for extended battery-life.
- On-board power measurement test points
- **Fully Integrated Software SDK**
    - o  T41 Linux drivers and connection manager
    - o  Device Provisioning over BLE
    - o  Firmware Over-the-Air (FOTA) & Firmware Over-Serial (FOS) Updates (FOTA)
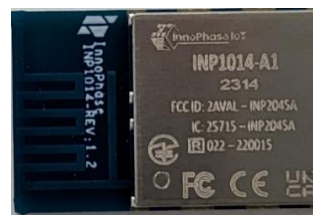    - o  Quick Start & User Guides



## Talaria TWO Wi-Fi + BLE

- **Wi-Fi:** 802.11 b/g/n, up to MCS7 single-stream (1x1)
- **BLE:** BLE 5.0 w/ Advanced Features: 2Mbps PHY, LE Coding (Long-Range), Extended Advertising
- **Frequency Supported:** 2.4GHz
- **Application Processor:** Arm Cortex-M3, 80MHz
- **Embedded Memories:** 512KB SRAM, 2MB Flash
- **Peripheral Interface to T41:** SDIO
- **Power Consumption:** Ultra-low power Wi-Fi to maintain cloud connectivity for battery-based products
- **Ultra-Low Power Wi-Fi:** 57uA (DTIM10), 31mA (Rx, 802.11b), 81mA (Tx, 802.11n)
- <u>Optimized Software</u>: Exclusive "Dual-Stack" SW implementation shares processing responsibilities between Talaria TWO and T41 to reduce system current consumption to the lowest level

**Learn More:  Talaria TWO Modules**

## Talaria TWO Wi-Fi + BLE5 Modules

### INP1014



PCB Antenna

(20.0 x 12.8 x 2.5mm)

### INP1015



U.FL Antenna

(17.0 x 12.8 x 2.5mm)

**Contact InnoPhase** at sales@innophaseiot.com for a demonstration and access to the Smart Video ADK

* Based on 6500mAh battery