The INP3201 Low Power Video Camera Reference Kit empowers embedded designers with IoT enabled Wi-Fi camera design for multiple video applications like video doorbell, IP camera, security camera, drones with camera, video conferencing devices and so on. The integrated T31ZX processor on the INP3201 RK acts as a Host processor used as an image processing unit and sending the image data to Talaria TWO for Wi-Fi transmission.

This is designed as a hardware reference for end-application devices.

This hardware guide describes designing a camera solution using INP10XX modules. It further demonstrates Talaria TWO’s multiple operating modes and helps evaluate its power save modes as well.

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| **Module** | **Module Description** |
| INP1014 | Mini module with integrated PCB antenna |
| INP1015 | Mini module with u.fl connector for external antenna |

Table 1: Talaria TWO modules overview

**Note**: For module images, mechanical dimensions, footprint and PIN out details, refer: *Talaria TWO Module and SoC datasheet* (<https://innophaseiot.com/portal/portal-hub/>).

The hardware design guidelines for the module can be can be broadly categorized into the following:

1. Power supply
2. Reset
3. Peripheral interfacing
4. Production programming
5. RF/Antenna section

Power supply, Reset & Peripheral interfacing remain same for all variations of the Talaria TWO module family.