

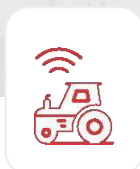
SolidSense AIoT



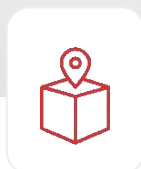
Border &
Perimeter
Surveillance



Wildlife
Monitoring &
Conservation



Agriculture
& Smart
Farming



Remote
Industrial
Equipment
Monitoring

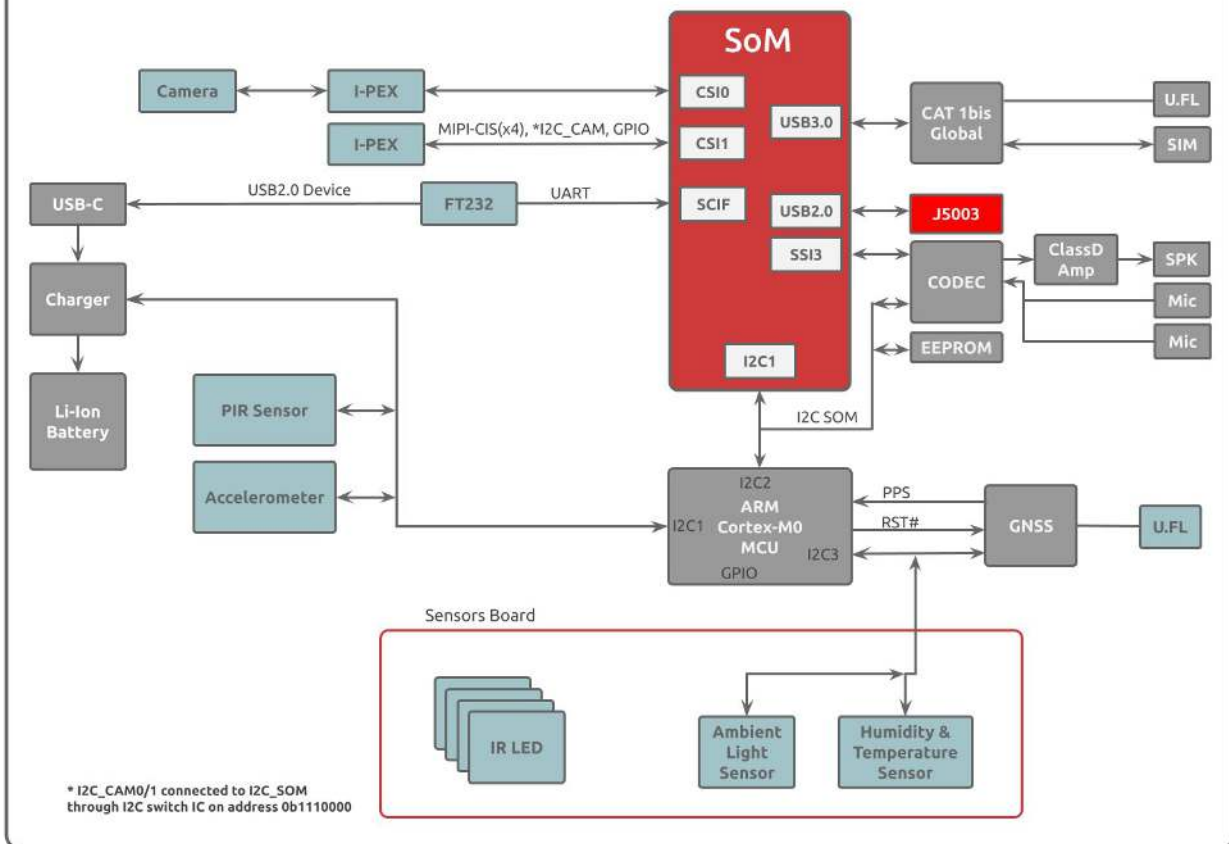


Low power platforms are critical for off-grid edge AI applications running on batteries, solar, or other limited power sources while operating for long periods of time in remote and harsh locations. **SolidSense AIoT** is a generic HW platform built to simplify development and deployment of vision AI solutions for remote environments. Integrated with a variety of sensors and based on real-time situational awareness it remains in ultra-low-power standby mode, activating and communicating only when needed.

Key Features:

- **Low Power Consumption:** Runs on a battery and can be charged via solar panel or other available charging methods, such as a small mobile wind turbine. This makes it ideal for remote areas with no power access.
- **Edge AI Processing:** Reduces latency and eliminates the need for constant cloud connectivity, enabling real-time and secure decision-making.
- **Waterproof & Rugged Design:** Suitable for harsh outdoor environments like forests, jungles, as well as industrial or urban sites.
- **Wireless & Standalone Operation:** No need for continuous connectivity; operates autonomously with local data processing.
- **Reduced Data Costs & Bandwidth Usage:** Only sends relevant alerts or compressed insights instead of streaming full video or raw sensor data

SolidSense AIoT



	SolidSense AIoT H15	SolidSense AIoT V2L	SolidSense AIoT V2N
I/Os	USB 2.0, I2C	USB 2.0, I2C	USB 2.0, I2C
Camera Interface	2x MIPI-CSI 4 lanes	2x MIPI-CSI 4 lanes	2x MIPI-CSI 4 lanes
Networking	802.11 a/b/g/n/ac/ax WiFi Bluetooth 5.3 LTE Cat1bis (nanoSIM)	802.11 a/b/g/n/ac WiFi Bluetooth 5.0 LTE Cat1bis (nanoSIM)	802.11 a/b/g/n/ac/ax WiFi Bluetooth 5.3 LTE Cat1bis (nanoSIM)
Processor	Hailo 15H	Renesas RZ/V2L	Renesas RZ/V2N
Neural Network Core	20 TOPs Hailo patented structure defined dataflow architecture	Arm Mali-G31 GPU, DRP-AI Accelerator	Arm Mali-G31, AI Accelerator DRP-AI3 (15 Sparse TOPs / 4 Dense TOPs)
Memory & Storage	Up to 8GB LPDDR4 Up to 128GB eMMC MicroSD	Up to 2GB DDR4 Up to 128GB eMMC MicroSD	Up to 8GB LPDDR4 Up to 128GB eMMC MicroSD
Camera Sensor	IMX678 Lens with/out IR CUT	IMX678 Lens with/out IR CUT Other options upon request	IMX678 Lens with/out IR CUT Other options upon request
Other Sensors	PIR, Ambient Light, Humidity & Temperature, Accelerometer, Ultrasonic Microphone		
Misc	ULP MCU RTC (Part of MCU) EEPROM Battery Management and Charger Dual Microphone (Audio In) Mono Speaker (Audio Out) IR LED FLASH (for low light image capture)		
Power	Li-Ion 3.6V nominal USB-C input charging port		
Temperature	Industrial: -40°C to 85°C		
Enclosure	Plastic ABS IP64 Rated		