



Inthings

Hardware Development Portfolio

Showcasing innovative solutions and advanced hardware projects

Company Overview



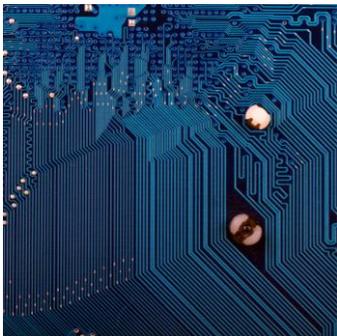
Innovative IoT Solutions

Inthings Technologies provides cutting-edge IoT and hardware development tailored to client needs.



Industry Expertise

Experience includes automotive, electric vehicles, environmental services, renewable energy, and electronics.



Quality and Innovation

Committed to delivering reliable, efficient, and technically sound hardware aligned with business goals.

Methodology

Client-Centric Approach

- focus on close collaboration with clients throughout development.

Innovation and Reliability

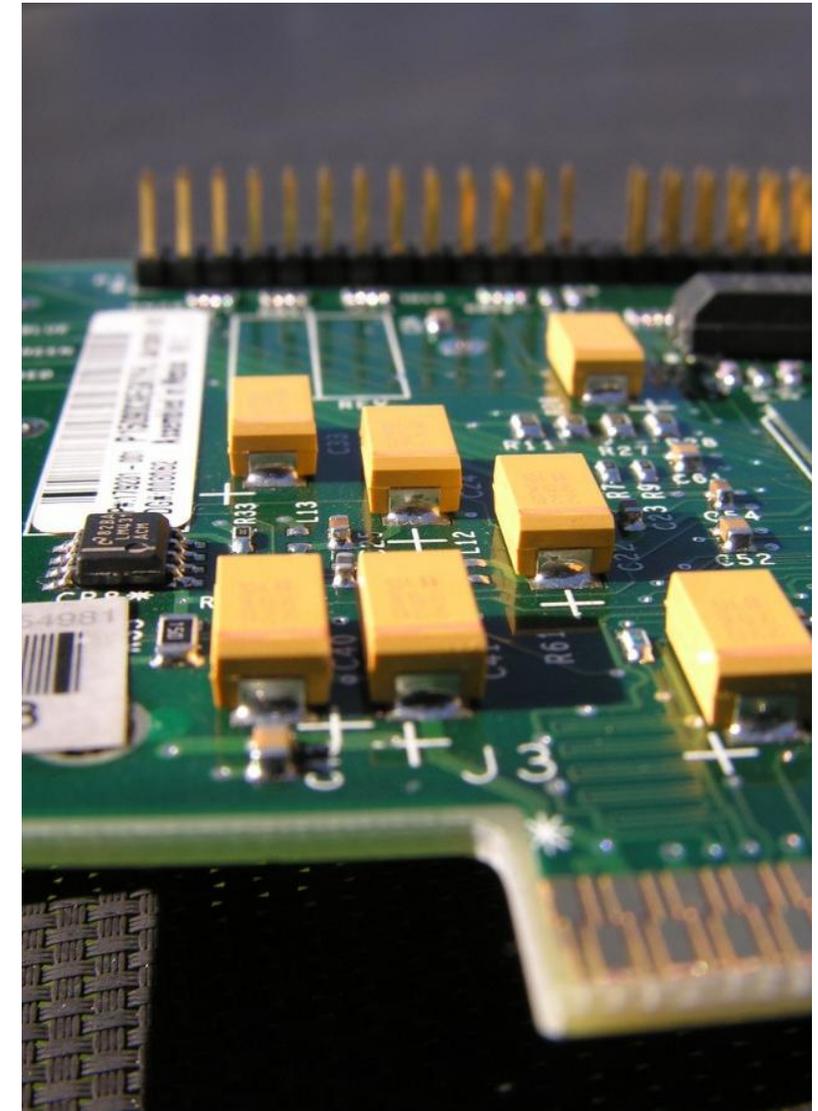
- Solutions emphasize innovation, reliability, and meeting technical expectations.

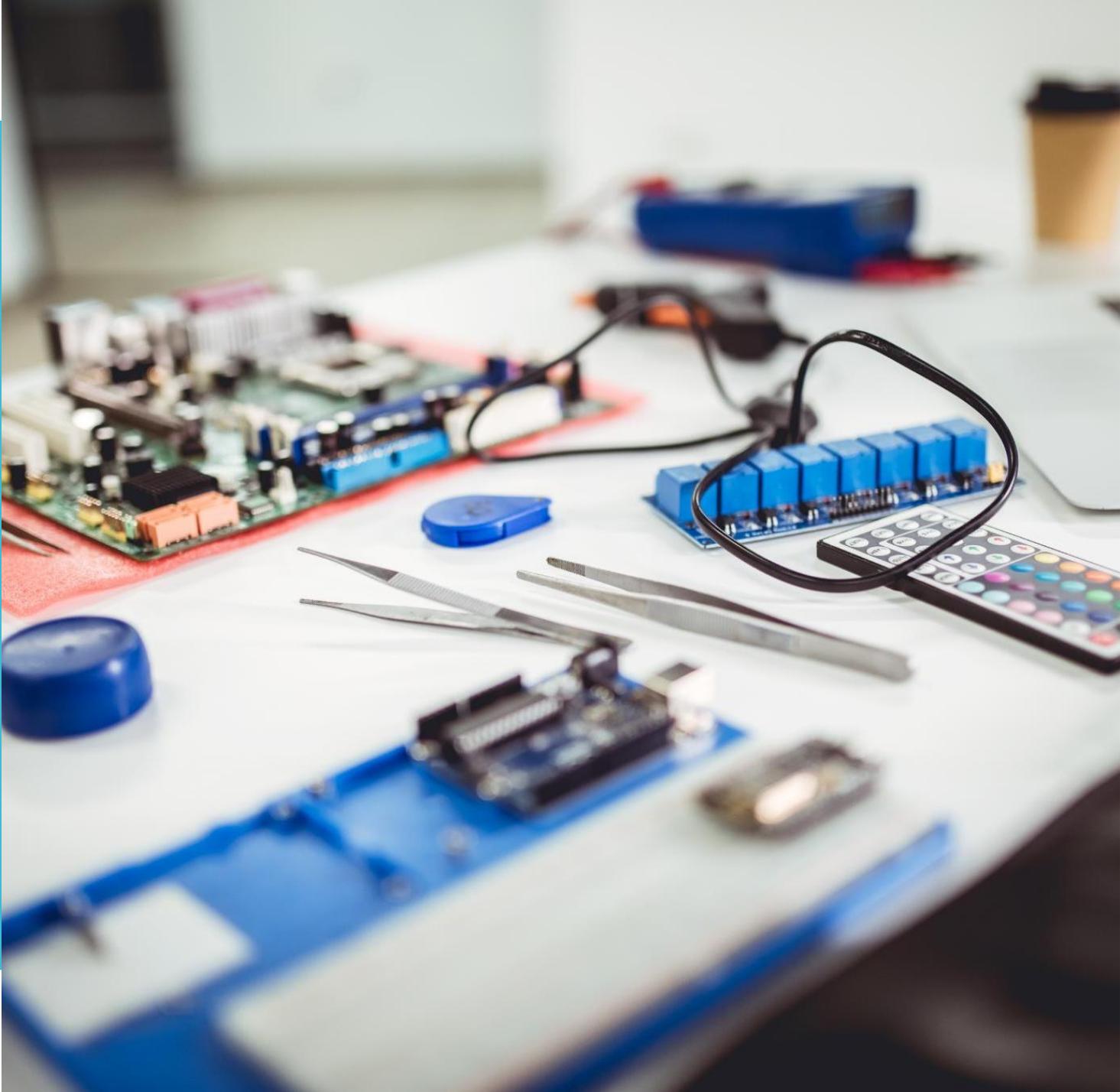
Cost-Effective Solutions

- Efforts are made to balance quality with affordability despite budget constraints.

Consistent Success

- Tailored methodology leads to successful outcomes in diverse projects and industries.





Service Offerings

Comprehensive Hardware Services

Services cover design, prototyping, PCB layout, firmware, and manufacturing from concept to deployment.

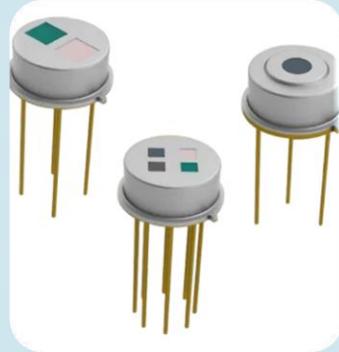
Precision and Quality

Every service is performed with meticulous attention to detail to ensure robustness and efficiency.

Multidisciplinary Expertise

Team expertise spans electronics, embedded systems, and industrial design for functional and aesthetic solutions.

Core Technologies



Sensor Integration

- Supports MODBUS RTU
- analog
- I2C
- SPI



Microcontroller Programming

- STM32
- ESP32
- Raspberry Pi
- PIC
- Arduino



Wireless Communication Protocols

- Wi-Fi
- Bluetooth
- GSM
- 4G LTE
- GNSS
- LoRaWAN



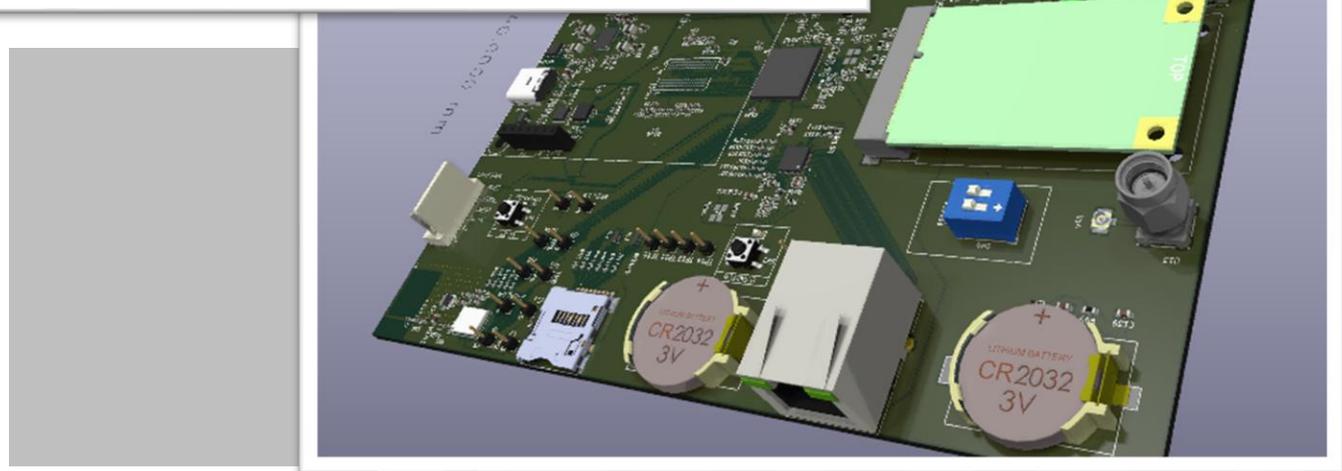
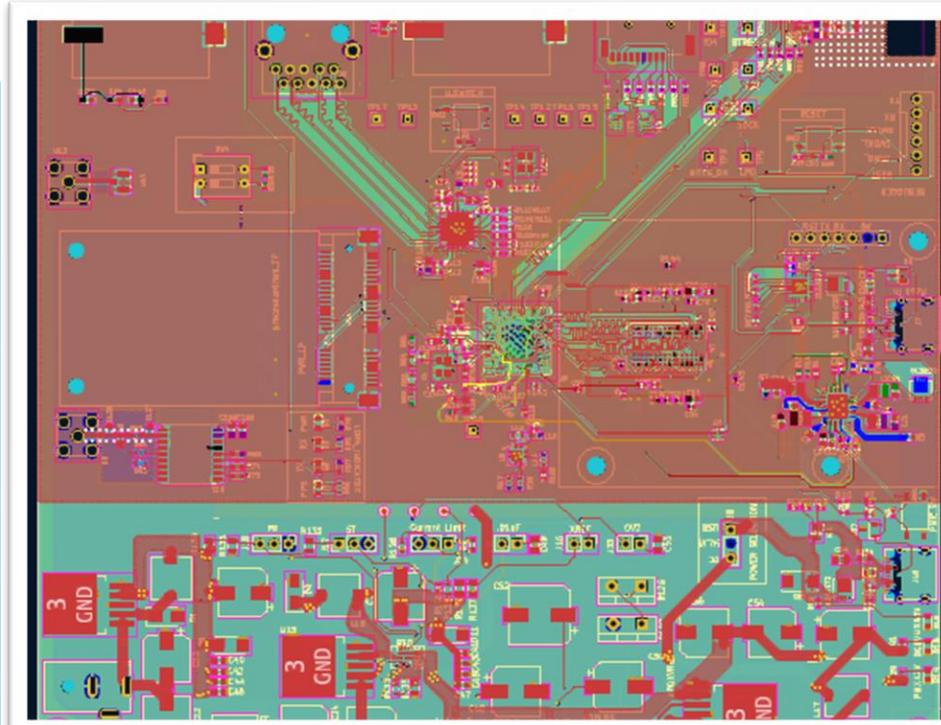
Cloud and Edge Computing

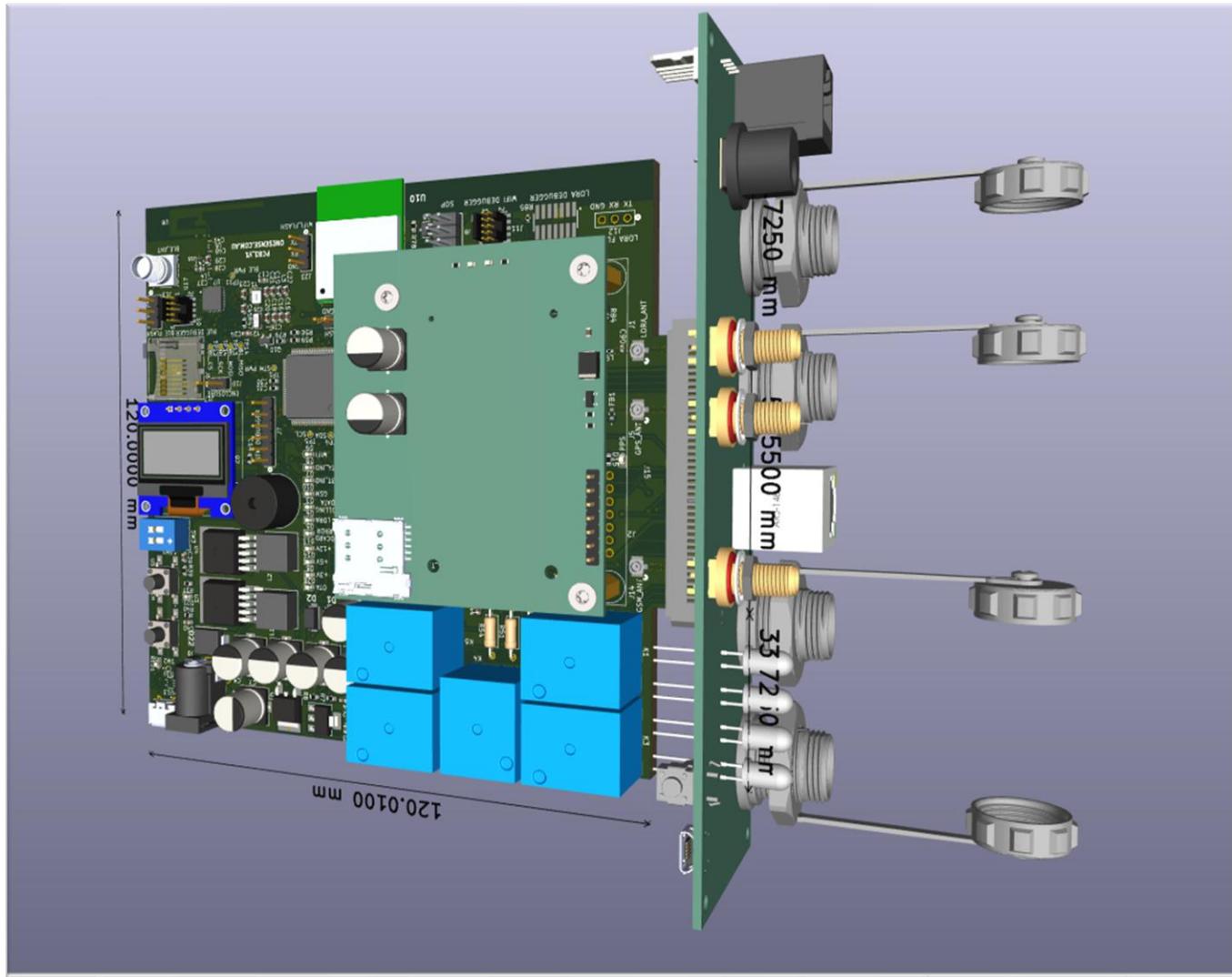
- Azure IoT cloud
- edge computing

Project Portfolio

LoRa Gateway

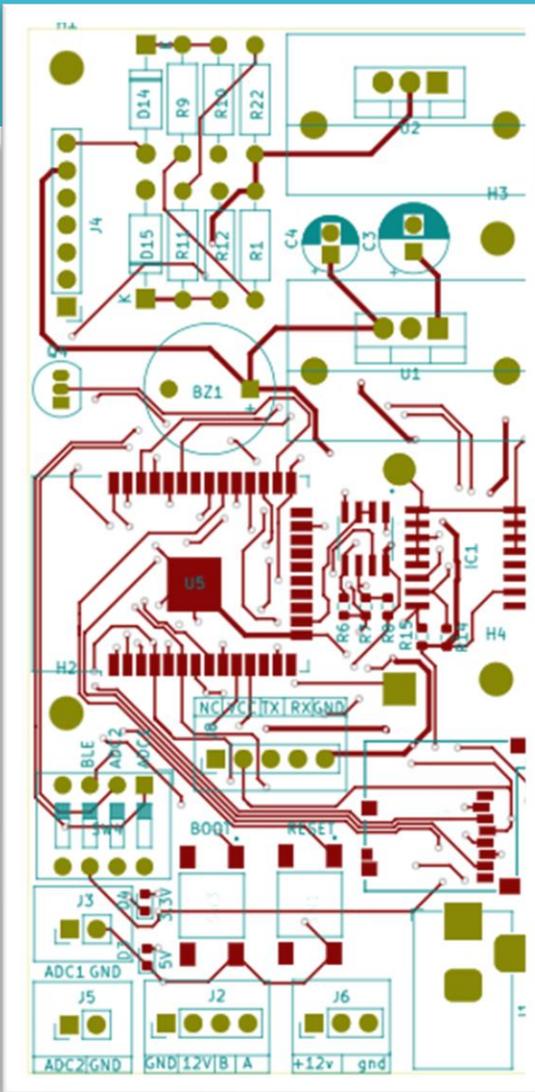
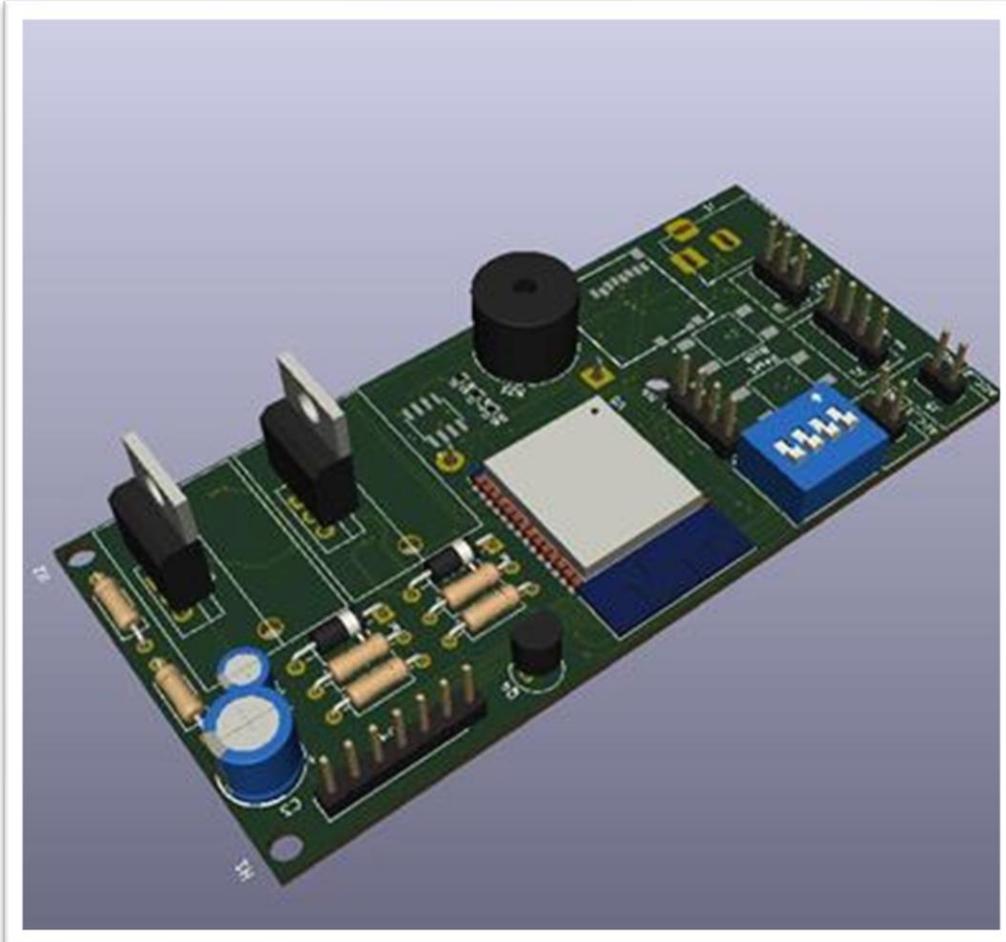
FEATURE	DESCRIPTION
Power Supply	12V DC via adapter or battery with auto-switching
Communication	Wi-Fi, Bluetooth, 5G LTE, Ethernet
Processor	STM32MP1 SoC and SX1303 LoRa concentrator
Design	8-layer HDI PCB with FBGA layout
Security	Hardware Security Module Integrated
Certification	Industrial-grade reliability and scalability





Water Quality Monitoring IoT Device

FEATURE	DESCRIPTION
Power Supply	12V DC via adapter or battery with auto-switching
Communication	Wi-Fi, Bluetooth, 4G LTE, LoRa
Inputs	5 analog inputs, 1 RS485 interface
Outputs	5 relay outputs controlled remotely
Data Logging	SD card support
Display	OLED

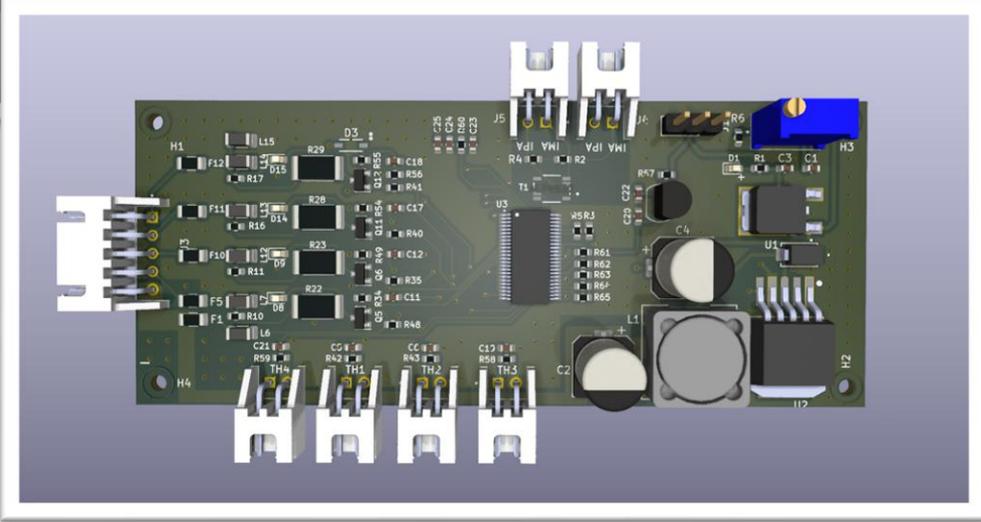
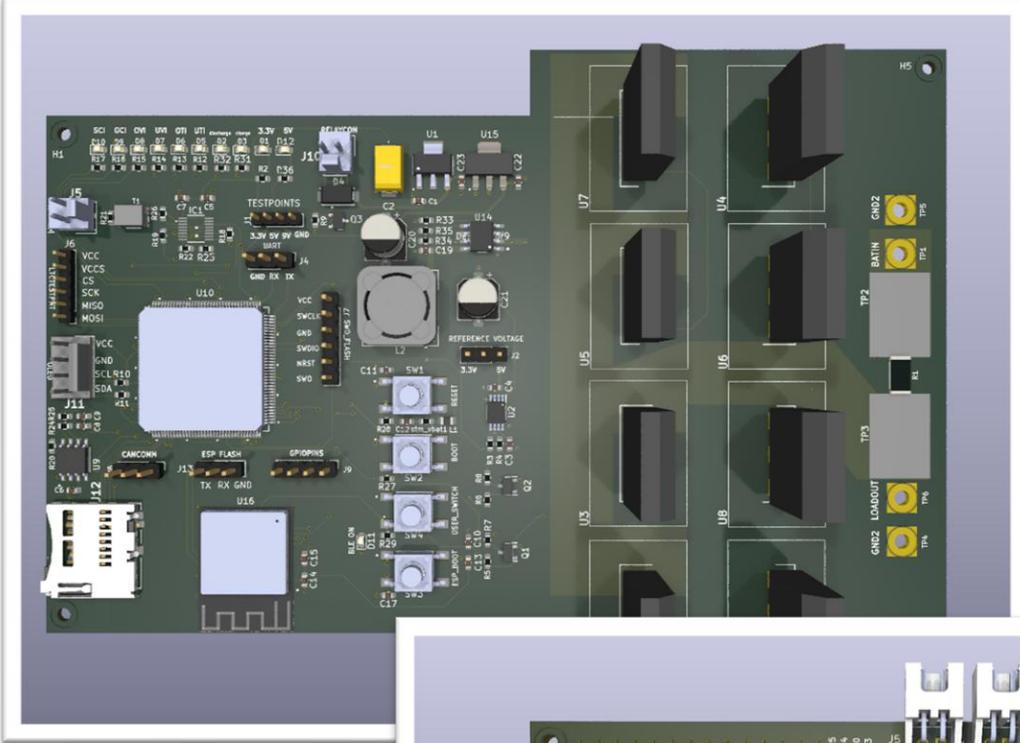


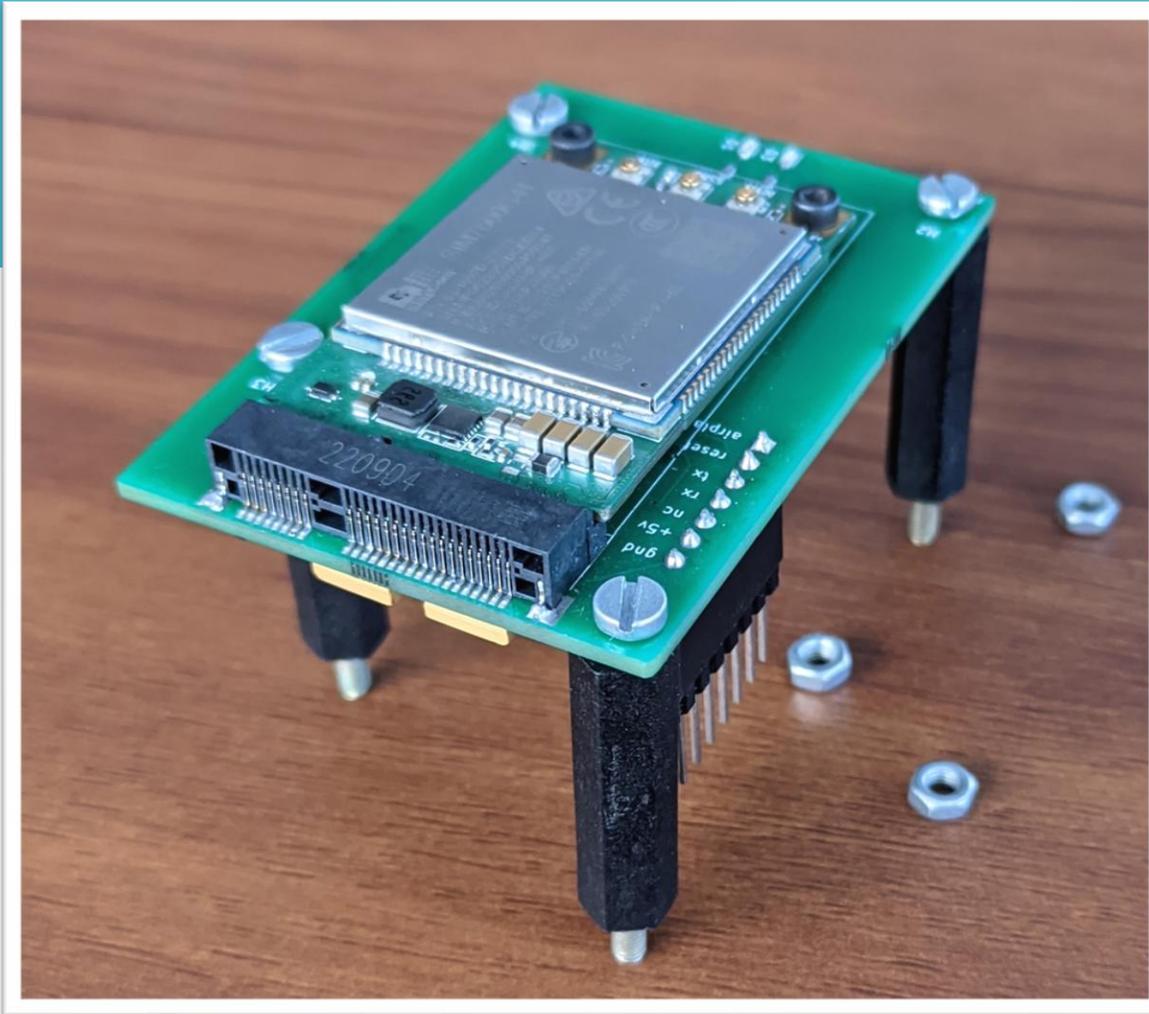
Sewage Pump Controller IoT Device

FEATURE	DESCRIPTION
Design	Double-layer with ground plane
Power	12V DC with battery/solar backup
Security	Flash encryption, secure bootloader
Communication	Wi-Fi, Bluetooth, 4G LTE
Inputs	2 analog, 1 RS485
Data Logging	SD card support

Battery Management System

FEATURE	DESCRIPTION
Microcontroller	STM32F303ZE (ARM Cortex-M4)
AFE IC	2 x LTC6811-2
Balancing	Passive up to 60mA per cell
Current Sensing	LMP8481 amplifier
Discharge Current	Up to 30A
Protection	Voltage, temperature, current





4G LTE Daughter Board

FEATURE	DESCRIPTION
MODULE	SIM7600-G-PCIE
NETWORK	4G LTE CAT4
DESIGN	DOUBLE-LAYER, COMPACT
POSITIONING	GNSS SUPPORT
INTERFACE	UART

Get in Touch



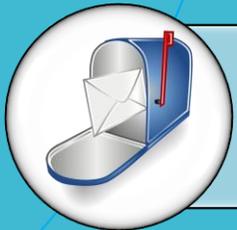
www.inthings.tech



info@inthings.tech



+9196336 87401/+9189783 90303.



Room No. 16/591, Karinkallathani, Chethalloor-PO, Thachanattukara-II, Palakkad – 678583, Kerala, India.