LPKIT
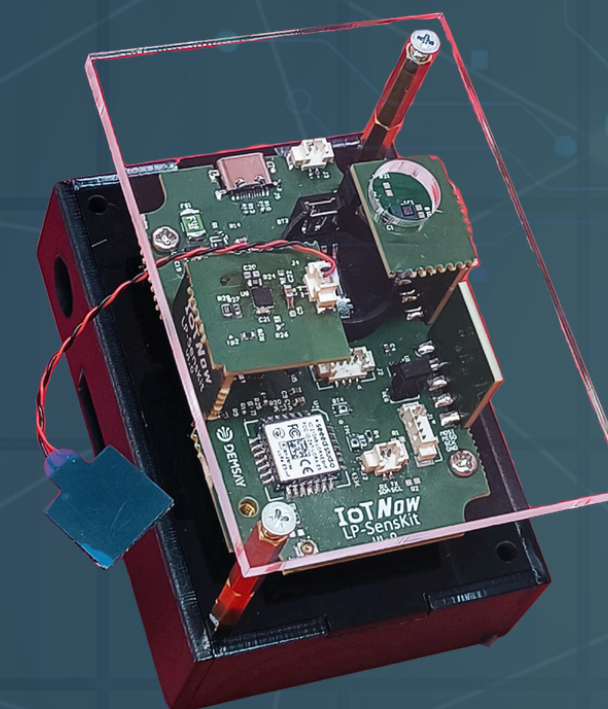## LOW POWER KIT

The LPKIT-Sensor and LPKIT-Gateway provide a reliable data collection and communication infrastructure for your industrial IoT solutions. Equipped with temperature, humidity, motion, presence detection and accelerometer sensors, the LPKIT-Sensor precisely measures environmental data and transmits it to the LPKIT-Gateway via LoRa. The LoRa and ESP32-S3-based LPKIT-Gateway transmits this data securely and seamlessly, allowing you to monitor and control your systems remotely.
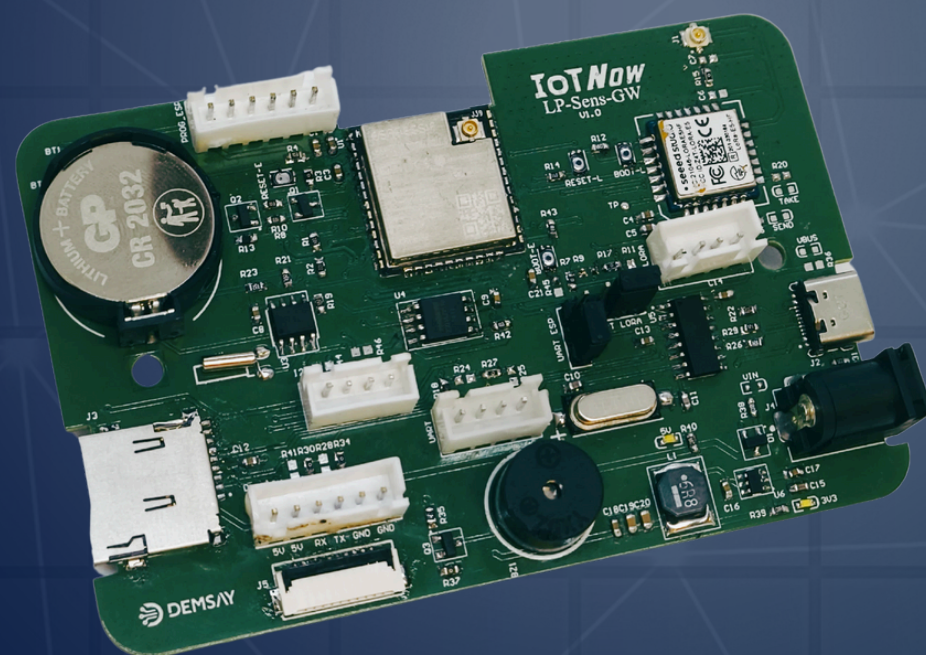
www.demsay.com

DEMSAY
Your reliable solutions partner
at every stage of electronics

LPKIT
LOW POWER KIT

GATEWAY

LPKIT-Gateway is a low power consumption and long range communication solution developed for industrial IoT and data monitoring applications. It provides point-to-point communication with LPKIT-Sens over LoRa protocol and makes incoming data viewable on DWIN Smart Screen via UART connection.,
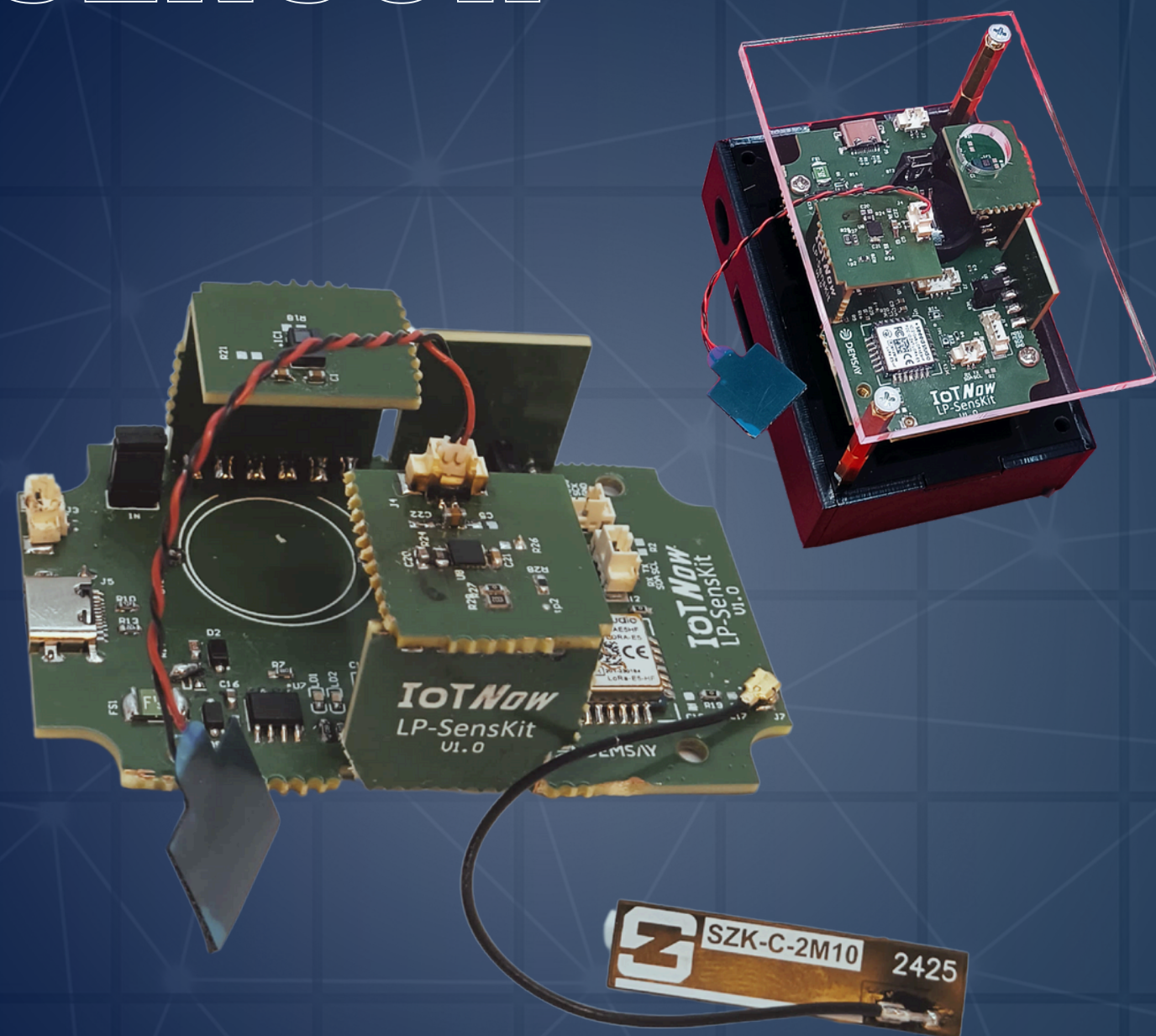
FEATURES

Wireless Communication: LoRa E5 Module
Provides wide coverage with long-range, low power consumption LoRa connection.

Powerful Processor: ESP32-S3
Processes data quickly and reliably with high-performance processor.

Easy Connection: TYPE-C USB
Provides fast data transfer and flexible connection.

Large Storage: Micro SD Card Support
Allows long-term storage of data.

Real-Time Data Tracking: DWIN Smart Screen with UART Connection
Allows you to follow the data from the sensors instantly.

Q www.demsay.com

DEMSAY
Your reliable solutions partner
at every stage of electronics

LPKIT
LOW POWER KIT

SENSOR

LPKIT-Sensor is a low power sensor board for IoT and environmental data applications. It offers a wide range of applications thanks to its powerful wireless communication and versatile sensor support.

FEATURES

- **LoRa E5 Module** – Supports long-range and low-power wireless communication
- **MAX17048G+ Battery Monitor** – Precise battery charge level measurement via I2C
- **HDC2080 Temperature & Humidity Sensor** – Real-time environmental data monitoring
- **STHS34PF80TR Presence Sensor** – Motion and presence detection with infrared sensing
- **LIS2DUX12TR 3-Axis Accelerometer** – Precise motion detection and vibration analysis
- **ST25DV04KC NFC/RFID Reader** – Contactless authentication and data communication

LPKIT-Sensor is an ideal solution for IoT projects, environmental monitoring systems and smart devices with low power consumption, wireless communication and various sensor integration!

DEMSAY
Your reliable solutions partner
at every stage of electronics

www.demsay.com