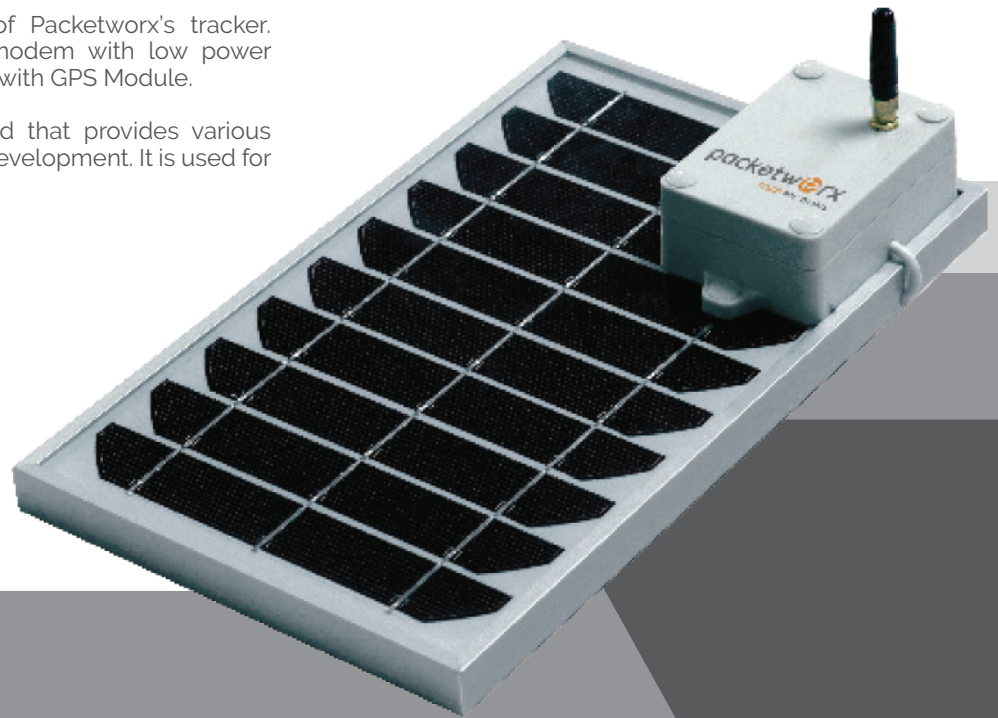


packetGPS RAK

PacketGPS RAK is another type of Packetworx's tracker. It is built on SX1276 LoRaWAN® modem with low power microcontroller STM32L1, integrated with GPS Module.

It is a feature packed sensor board that provides various interfaces for featured applications development. It is used for packetTRACK Marine solution.



Applications

- Ships and Vessels Monitoring
- Fleet management
- Asset tracking

Features and Specifications:

- Compatible with 96Boards IoT Edition Specification.
- With SX1276 LoRa long range and Ublox Max 7Q GPS modems which allow to enable the GPS low power mode.
- Integrated the ultra-low power microcontroller ARM Cortex-M3 STM32L1.
- Built-in environmental sensor BME680 (*gas, pressure, humidity, temperature*) and 3-axis MEMS sensor LIS3DH (*accelerometer*).
- SMA/iPEX antenna optional for LoRa and GPS.
- Supports latest LoRaWAN® 1.0.2 protocol, activation by OTAA/ABP.
- Supports programmable bit rate up to 300kbps.
- Supports rechargeable battery through micro USB or 5V solar charging ports.
- Supports sleep mode, the power consumption down to 14.5µA.
- Supports global license-free ISM band (*EU433, CN470, EU868, US915, AS923, AU915, KR920, IN865 and AS920*).
- Supports I2C, GPIOs, UART and ADC interfaces.
- IP68
- Operating Voltage: 3.7V. It can be powered by microUSB; with 5V Max Power: 3.7V Li-on Battery with redundant 5V solar panel charger

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