

ED10W LoRaWAN Smart Watch

Product Brief

Description

ED10W is a smart IoT watch based on LoRaWAN.

Combined with motion sensor, it can achieve indoor and outdoor real-time positioning. With wearing detection, it can realize a real-time collection of health data such as heart rate, body temperature, blood pressure, and steps. The data will be transmitted to the platform through the LoRaWAN Network.



Features

- **Communication via LoRa** : communication range up to 1.5KM line-of-sight , 500 ~ 1000Meters in dense urban , compatible with any LoRaWAN™ network.
- Build in GNSS+ WIFI chip, Indoor & outdoor **real-time tracking**
- **Heart rate, body temperature, blood pressure, step monitor**: the measurements are made at a configured frequency and automatically send to the LoRaWAN™ network.
- **Real-time Alarm**: When the heart rate exceeds the standard, an alarm is sent.
- **SOS in emergency**
- **Long Battery Life**: Battery life as long as 7 days @ 15mins uplink duty cycle(Class A), a notification is sent when the battery power falls below 10%.

Application

- Smart safety solution for people working in industrial companies. Such as large oil&gas company, mining, smart cities, utilities.
- Smart senior care, Isolting people from airport, hospital.

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Specification

Parameters	Specification
Modem	ISM Band LoRa®, Class A or Class C
Frequency	AS923MHz, EU868Mhz(optional)
Tx Power	Max +20dBm
Communication range	500~1000M in dense urban,1.5KM los
Positioning	Build in GNSS, WIFI and accelerometer, Positioning accuracy:5~20 Meters (Indoor positioning accuracy varies depending on Beacon density)
Operating mode	1.Default positioning interval is 15mins, supports wear detection 2.Automatically send a uplink message when power on the device, platform will send a downlink message. 3、 Default downlink interval $\geq 15s$ 4.Trigger SOS will not change the positioning logic 5.The wristband uplink positioning data, power information data and heart rate information according to the uplink cycle 6. Class C mode: Support downlink message at any time.
Display	240*204 TFT Display
Rubber strap	22mm standard size (Replaceable)
Buttons	Function button A and B
Battery capacity	Polymer battery, 400mAh, 3.8V
Charging	Magnetic charging cable
Operation time	7 days Standby(Class A); 10 hours(Class C)
Enclosure	IP67(IP65 opt.)
Electronic tags	Support RFID, NFC Tag (not equipped by default)
Health data	Heart rate, number of steps, body temperature, blood pressure detection.
SOS	Support
Alarm	SOS alarm, Low power alarm
Operation temperature	-20~60°C
Operation humidity	10%~90%, Non-condensing
Dimensions	TYP. 48*52*14.5mm (W*L*H)
Weight	50g