

iSmarch J3-LoRa Smartwatch



The J3-LoRa Smartwatch is a rugged wearable designed for mission-critical environments. It combines LoRa / LoRaWAN multi-band connectivity, GPS, BLE 5.2, and comprehensive health monitoring—ideal for tracking, safety, and operational efficiency across global deployments.

**J3 (LORAWAN) +Heart Rate + Blood Oxygen+
Body Temperature + SOS + HRV(RRI) Smart Watch**

Multi-Band LoRaWAN for Industrial IoT Excellence

Key features and highlights

Multi-Band LoRaWAN Connectivity

- Supports major regional frequency bands: EU868, US915, AS923, AU915, enabling seamless global deployment.
- Ensures long-range, low-power communication suitable for large-scale industrial, logistics, and safety applications.

Vital Health Metrics & Sensor Access

- Captures critical metrics: Heart Rate, SpO₂, Body Temperature, HRV (High-fidelity up to 500 Hz), Stress, along with activity and sleep data.
- Exposes raw PPG and accelerometer (G-sensor) data, offering full control and deep integration via SDKs.

Advanced Positioning

- GPS for precise outdoor tracking, augmented with BLE AOA capability for indoor localization when paired with gateways

Durable Design & Long Battery Life

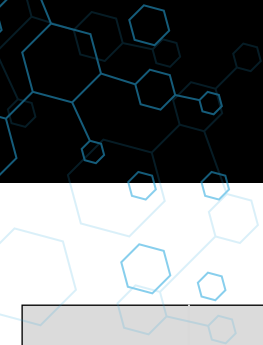
- 600 mAh battery combined with low-power LoRa and Nordic nRF52840 architecture delivers multi-day operation.
- Industrial-grade robustness, built for rugged environments (heavy industry, logistics, mining, oil & gas). Customizable firmware and UI for integration flexibility.



FEATURE	HIGHLIGHT
Connectivity	LoRa/LoRaWAN multi-band (EU868, US915, AS923, AU915), BLE 5.2, GPS, SOS Button
Health Sensors	Heart Rate, SpO ₂ , Body Temperature, HRV (up to 500 Hz), Stress, Sleep, Activity
Raw Data Access	PPG & Accelerometer raw data available via SDK
Location Tracking	Outdoor via GPS; indoor via BLE AOA with gateway infrastructure
Battery & Power	600–650 mAh battery, optimized for extended uptime using low-power logic
Customization & Durability	Custom UI/Firmware, industrial build quality suited for harsh environments

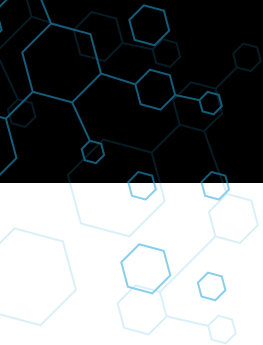
Why Choose J3-LoRaWAN?

- Global Deployment Ready: Multi-band LoRa support removes regulatory barriers across regions.
- Rich Health Data & Insight: Ideal for safety and wellness monitoring in extreme conditions.
- Flexible Integration: Raw sensor data
- Robust & Dependable: Designed for reliability in demanding industrial and logistics scenarios.



SI No	Parameters	BLE5.2+LORAWAN(868MHZ & 915MHZ & 923MHZ ISM Band)+GPS	
1	Product Features	Blood Oxygen Saturation (SpO2)	Photoplethysmography (PPG) reflected light blood oxygen (red & light + infrared light)
		Body Temperature	Support
		Heart Rate	Support Static heart + dynamic heart rate
		Blood Pressure	Support (not allowed, used with caution, not responsible for accuracy)
		Heart Rate Variability (HRV)	25 Hz sampling rate (customizable), supports broadcast and Bluetooth SDK/API data acquisition.
		Stress Level	Support (the higher the value, the greater the pressure, and vice versa) - HRV based algorithm
		Fatigue Monitor	Support (the data of the day before 8 a.m. every day) - algorithms based on heart rate / sleep / HRV
		Pedometer/Steps & Sleep Monitoring	Support
		SOS	Long-press key (5s) sends SOS to base station for cloud processing.
		Sensor Data(GSensor / PPG RAW Data)	Support
		With LoraWAN Gateway	1) Uploads vital signs and GPS data to the cloud via LoRa base station (default: 1 packet every 5 minutes). 2) Supports SOS alerts via LoRa gateway.

2	Basic Parameter	Device size (mm) without strap	42.5*53*16.5mm
		Weight Device without strap	40g
		Weight strap	22g
		Body temperature function description	Wrist skin temperature sensor (36–42 °C) with high thermal conductivity and built-in algorithm.
3	Hardware parameters	Chipset Supplier	NORDIC NRF52840+Semtech LORAWAN Module
		APP	IXFIT (Download at App Store or Google Play Store) For Testing
		App System requirement	Android5.0 or Above/ IOS9.0 or Above
		FLASH memory	1MB FLASH
		Display type	TFT
		screen size	1.54inch
		Resolution	240*240
4	Connection parameter	Touch Type	2 physical keys (including SOS keys)--No Touch Key
5	Sensor	Bluetooth Version	Bluetooth 5.2
		G-Sensor	High-precision sensor, working with low power consumption
		Body Temperature	YES
		Blood Oxygen Saturation (SpO2) (PPG)	YES
		Heart Rate(PPG)	YES



6	Battery	Battery Type	Polymer lithium battery
		Capacity	600MAH
7	Other Partmeter	Charging Method	Magnetic charging
		Waterproof Level	IP68
		Charging time	5hours
		Battery life	7*24hours(Steps +Bluetooth+HeartRate Always on Without GPS and LORA)
		Strap colors	BLACK
		Material	Case: Plastic; Strap:Silicon
8	Package Size	Packing quantity (pcs)	100pcs
		Packing box size (L*W*H) MM	98*98*40mm
		Package weight (g)	140g(Including device+ strap + charging accessories)
		Carton box size (L*W*H) CM	510*420*230mm
		Carton weight(KG)	10.2

Front

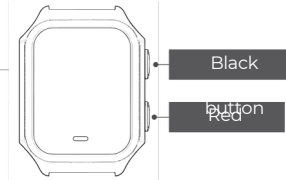
J3 Smart watch User Guide



Thank you for choosing our products, please read the User Guide before use

Package

1. Smart watch*1



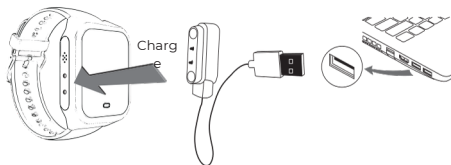
2. Manual*1



3. Charger*1



How to charge the smartwatch



The specific charging steps are as follows: 1. Plug the USB plug of the charging cable into a USB port on your computer, a UL listed USB wall charger, or any USB charging port. 2. Use the magnetic device on the charging cable to attach it to the magnetic end of the bracelet. 3. Make sure the pins on the charging cable are securely connected to the ports and there is a battery progress bar on the screen while charging.

Battery management

This machine is powered by a built-in (non-removable) battery, and the battery indicator is Indicates that the battery is fully charged. When the battery indicator is displayed as It means that the remaining power is insufficient, please charge it in time.

The smartwatch only needs 2 hours to fully charge.

Tim

bluetooth not connected
connected



Long press to enter/exit

SOS



Heart

Note: Monitor Mode is "Continuous Measurement Mode"

Heart rate value

Click the button to open Monitor Mode



Blood

blood oxygen value

Click the button to open Monitor Mode



Body

Body temperature in degrees Celsius
Body temperature Fahrenheit



Note: Double-click to switch Celsius/Fahrenheit, and the home page will switch

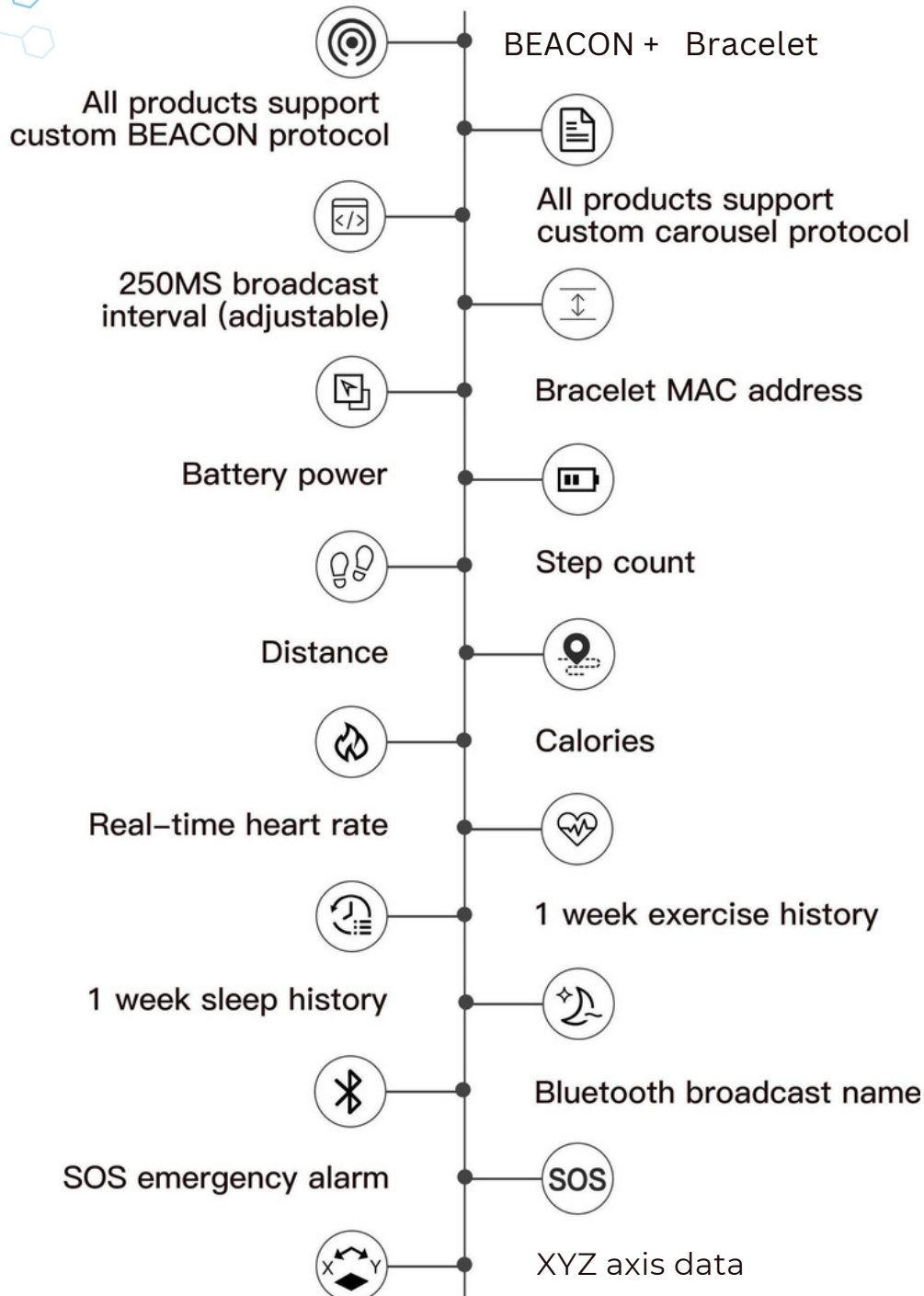


If the body temperature is higher than 42°C, the screen will display Hi
If the body temperature is below 35°C, the screen will display Lo

Back



Parameters



In association with



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