

TECHNICAL SPECIFICATIONS

BODY

Dimensions (Width x Length x Height) in mm:	40.5 (1.6") x 47 (1.9") x 14.7 (0.6")
Weight:	52 g
Chip:	nRF5340 2x ARM Cortex M33 cores for application and network
Platform (OS):	Zephyr RTOS

DISPLAY

Brightness:	250 NITS
Resolution:	240 x 240 px
Type:	LCD TFT
Size:	1.3"
Cover lens:	Corning gorilla glass 3
Surface hardness:	>8 H
Display area:	547.56 sq mm

TELTOHEART MEMORY

Capacity:	128 Mb
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CONNECTIVITY

Bluetooth:	5.3
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BLUETOOTH RADIO PERFORMANCE

Operating frequency:	2402 MHz – 2480 MHz
Max. output power:	3 dBm

FEATURES

- ECG sensors for electrocardiogram
- PPG sensors for AFib detection
- Heart rate monitoring
- Low/High heart rate
- Water resistant 1 m (for 30 minutes)
- Protection level against ingress of solid objects: IP 67

POWER SUPPLY

Build-in rechargeable Li-Po battery (not replaceable by the user):	410 mAh 1.56 Wh
Charging voltage:	5 V
Operating voltage:	• Internal Battery 3.8 V • External power supply 5 V
Max. Input current:	0.5 A

SENSORS AND COMPONENTS

- Accelerometer
- Gyroscope

BUTTONS

Side button (On/off, Restart, Back)

STRAPS

The wristband with an electrode is made of silicone rubber with an integrated stainless-steel electrode
Strap material: Silicone

AVAILABLE STRAP SIZES

S (Fits on wrist 14 up to 20 cm)
M (Fits on wrist 16.5 up to 22 cm)
L (Fits on wrist 19 up to 24.5 cm)

Strap size depends on purchased set.

SUPPORTED PERIPHERALS

Accessories: TeltoHeart charging dock

- Compatibility with other manufacturer accessories:**
- Any CE marked wall charger with 5 V/1A output and USB type-A connector
 - Any CE certified USB-A to USB-C cable
 - Any smartphone operating on Android OS version 10 or above with Google play store service.
 - Any smartphone using iOS version 14 or above

Compatibility with mri or ct was not checked and use of device in mri or ct environment is prohibited

Bluetooth compatibility: Devices that use Bluetooth v5.0 or later in 2.4 GHz (2.402 – 2.480 GHz) band and SMP protocol are compatible with the device

CONDITIONS FOR USE

Operation temperature range: -10°C ~ +40 °C

Charging temperature range: 0 ~ +40°C

Storage temperature range:

- 1 Month: -20 ~ +35 °C
- 6 Months: -20 ~ 30 °C

Humidity limitations:

- Extreme low: 15%
- Extreme high: 90%

Atmospheric pressure limitations:

- Extreme low: 700 hPa
- Extreme high: 1060 hPa

PPG/ECG MEASUREMENTS SPECIFICATIONS

PPG features: Continuous heart rate and atrial fibrillation monitoring

ECG features: Electrocardiogram (ECG) measurement: 6 leads.

ECG electrode location: Bottom surface, top upper surface, wrist band.

ECG and electrodes: Lead I and Lead III (measured). Lead II and augmented aVL, aVR, aVF (calculated).

ATRIAL FIBRILLATION

Measurement method: Non-invasive

Technology: Bio-optical (photoplethysmography, PPG), 6-lead electrocardiography (ECG).

CERTIFICATES

Approved: CE/RED, UKCA, FCC, IC, MDR

Pending: FDA