

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
-----------	--------

CONNECTIVITY

Bluetooth:	5.3
------------	-----

BLUETOOTH RADIO PERFORMANCE

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

FEATURES

- Electrocardiogram (ECG) recording;
- Atrial Fibrillation monitoring;
- Heart rate monitoring;
- Bradycardia/Tachycardia monitoring;
- Water-resistant (IP67 protection);
- Steps tracking;
- Cloud-based firmware updates.

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, M, L

Strap size depends on purchased set.

SUPPORTED PERIPHERALS

Accessories:	TeltoHeart charging dock
Compatibility with other manufacturer accessories:	<ul style="list-style-type: none"> • 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
--------------------------	---

CONDITIONS FOR USE

Operation temperature range:	-10 °C ~ +45 °C
Charging temperature range:	0 ~ +45°C
Storage temperature range:	<ul style="list-style-type: none"> • 1 Month: -20 ~ +35 °C • 6 Months: -20 ~ 30 °C

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 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