

TELTOHEART

Smart wristband for medical purpose with an exceptional set of features and design which can record 6-lead electrocardiogram and continual detection of atrial fibrillation.



KEY FEATURES AND VALUES



MEDICAL INSTITUTION

- The possibility to offer new telemedicine services remotely
- The possibility to increase the number of customers/patients
- API for integration to existing software/platform
- Patient history and real-time medical data
- Directly communication with customer/patients

DISTRIBUTOR

- Easy management of all clients
- Remote device diagnostic and FOTA
- Billing system





END USER

- The possibility to perform an electrocardiogram at home
- Real-time notification of Atrial fibrillationdetection
- History of medical and health data
- Remote sharing of medical and health data with the doctor
- The possibility to get diagnostic from the doctor

KEY FEATURES AND VALUES





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
Туре:	LCD TFT
Size:	1.3"
Cover lens:	Corning gorilla glass 3
Surface hardness:	>8 H
Display area:	547.56 sq mm
TELTOHEART MEMORY	

100 MA

TELTOHEART MEMORY

Capacity

Capacity:	128 MD
CONNECTIVITY	
Bluetooth:	5.3
Remote access:	Cloud

FEATURES

- · ECG sensors for electrocardiogram
- · PPG sensors for AFib detection
- · Heart rate monitoring
- · Low/High heart rate
- · Cloud-based firmware updates, configuration app (Bluetooth)
- Water resistant 1 m (for 30 minutes)
- · Protection level against access to hazardous parts and ingress of solid bjects: 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

0.5 A

Max. Input current:

SENSORS AND COMPONENTS

- Accelerometer
- Gyroscope

BUTTONS

One (Turn on, Restart, Back)

STRAPS

STICKI S		
	with an electrode is made of silicone integrated stainless-steel electrode	
Strap material:	Silicone	
Strap sizes	• S • M	
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 in 2.4 GHz (2.402 – 2.480 GHz) band and SMP protocol are compatible with the device	
CONDITIONS		
Operation temperature range:	-10 °C ~ +45 °C	
Charging temperature range:	0 ~ +45°C	
Storage temperature range:	• 1 Month: -20 ~ +35 °C • 6 Months: -20 ~ 30 °C	
PPG/ECG ME	ASUREMENTS 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).	
CERTIFICATE	S	
Approved	CE/RED, UKCA, FCC, IC	

CONTACT INFORMATION

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Pending

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