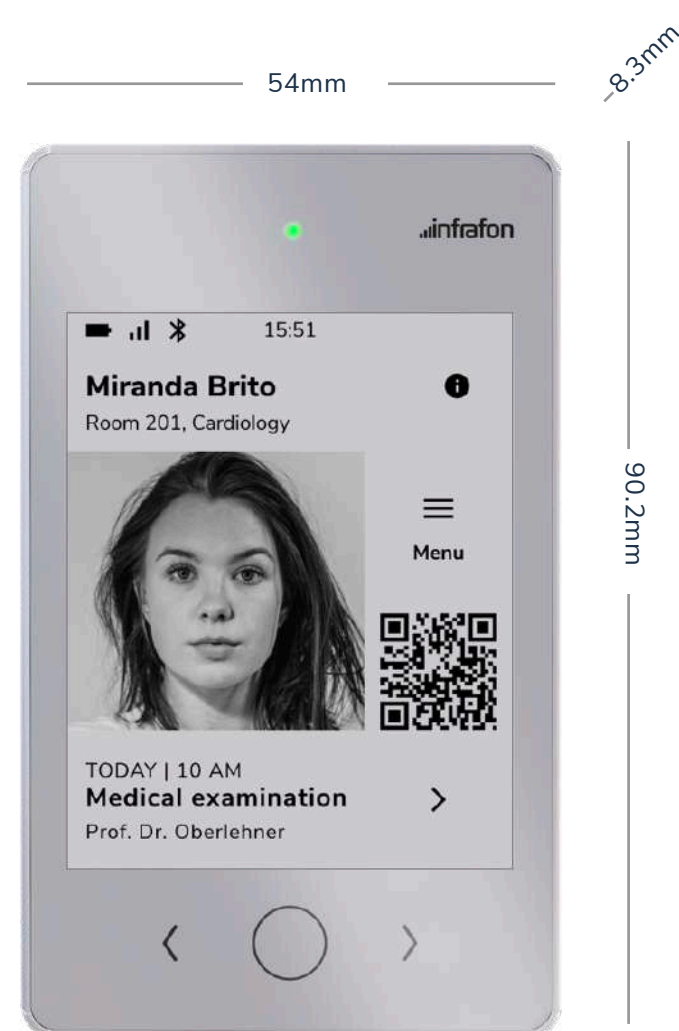


Specifications

Infrafon CC1

Parameter	Specifications
display	600x480pixel e-paper 16 grayscales, partial refresh
body	54mm x 90.2mm x 8.3mm fall & splash proof PC ABS Color Body RAL 7001
touch	15 capacitive touch areas, PMMA, scratch proof hardened antiglare PMMA, (upon request chemical hardened antiglare glass / MOQ 500 pieces)
communication	LoRaWan(SEMTECH SX1272 BW: 125KHz, 250KHz, 500KHz, (EU 886 Mhz/ US 915Mhz) SigFox LTE-M, NB-iot, μ SIM socket, eSIM Bluetooth 5.0, HW V.4.2, BR/EDR (shared WiFi antenna) FW stack certified BLE v5.0 Wifi (2.4 GHz, 802.11 b/g/n) GNSS RFID
firmware	0.9
battery	LiPo, 440mAh
weight	51g
LED	programmable RGB LED on front side



Modules & Sensors

1. Pycom L01 Module

- energy efficient
- ESP32, 4MB RAM, 8MB Flash
- LoRA, Wifi, BLE

2. Sequans Monarch GM02S

- LTE-M

3. NXP SE050 Edge Lock

- EAL6+ certified

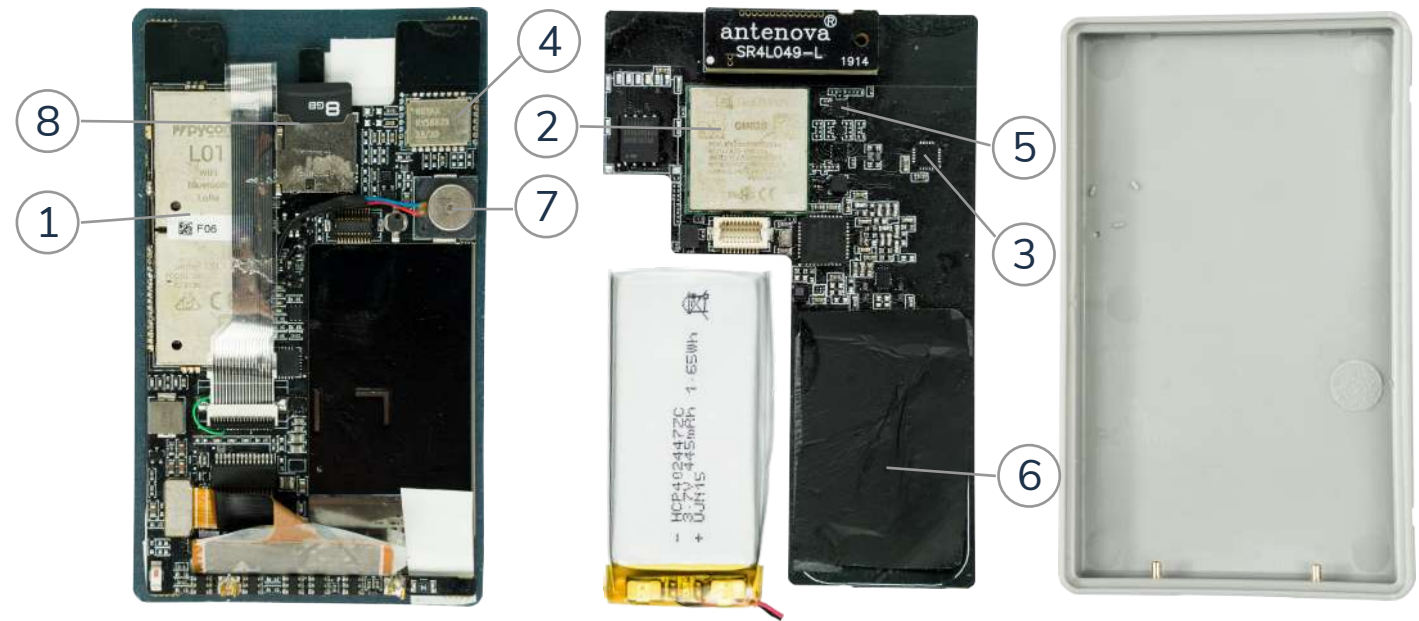
4. GNSS / GPS

5. 3-axis acceleration sensor

- 6. **2x RFID**, NFC NXP NTP5210 passive 13,56MHz,
NFC certification ID 58626
- NFC NXP PN7150, active card emulation & reader,
13,56MHz

7. Polyphonic buzzer + vibrator

8. micro SD slot



Charger & Accessories



Desktop Charger

The USB-C charger is made to be placed on a desktop, Infrafon CC1 can be placed and recharged easily. LED shows function and charge mode. (USB-C operated, Remark: AC power adapter and USB-C cable not included)

Order Code: X-H-C1-1.0



Mass Charger

For work teams or visitor reception desks it can be useful to supply workers or visitors with this manual bulk CC1 charger. Remark: (USB-C operated, Remark: AC power adapter and USB-C cable not included)

Order Code: X-H-C3-1.0



Wallmount Charger

The Wall Charger works similar to the Desktop Charger but can be mounted to a wall or a piece of furniture / equipment. (USB-C operated, Remark: AC power adapter and USB-C cable not included)

Order Code: X-H-C2-1.0



Pocket Clip

The Pocket Clip allows you to wear the CC1 in your front pocket or to be clipped to your belt.

Order Code: X-H-C1-1.0

Accessories



Extended Audio Module

Infrafon itself is equipped with a Buzzer and Vibrator, but if extended audio features are requested like recording voice messages, play messages, sounds or very loud alerts, this can be a useful expansion clip. We have designed the module on hospital customer request in order to monitor background sound and to alert in case of certain noise characteristics by MQTT backend analysis. Order Code: X-H-A1-1.0



Precise localization Module

Apple UWB RTLS Airtag can be embedded to this clip. Indoor localization of Infrafon CC1 in the range of few centimeters. Use case: Order a drink with Infrafon, service staff, equipped with IOS device and RTLS can localize guest very precisely and deliver the drink even in crowded situations. Order Code: X-H-A2-1.0



QR code & imager Module

Zebra SE4100 powered 2D QR code reader expansion module allows to read, interpret and transmit data from 1D/2D codes or take imager pics and deliver to IES backend for further processing by 3rd party apps. Take advantage of Infrafon endless communication strength and transmit by LoRa, where no public network is available. A hospital asked us to create this module to read Patient QR coded wrist bands to grant Patient ID.

Order Code:
X-H-H1-1.0



Lanyard Clip

This little clip allows you to wear the CC1 around your neck. Order Code: X-H-C2-1.0