

Infrafon CC2 Data Sheet

Product Overview:

Product Type: CC2 Infrafon Smart Badge – CC2-X

Universal two-way communication and authentication device with RTLS compatibility, managed by IES backend. Example use cases include: Nurse call, duress / alert management, physical access systems, paging, call functions like SIP or recording for speech to text etc..



Specifications:

Dimensions	54 x 90 x 9 mm (2.13 x 3.5 x 0.35 in)
Weight	60 g (2,12 oz)
Environmental Protection	IP65, Fall-resistant up to 2m (6.56 ft)
Operating Temperature	0 to 50°C (32 to 122°F)
Humidity	95% non-condensing relative humidity
Casing	PC/ABS
Battery	LiPo 440mAh, USB-C charging or Multi-Charger
Battery Life	26h WiFi+BLE, 28h BLE GATT, 29h WiFi
Display	2.7-inch ePaper touch screen, 264 x 176, B&W
Radio Protocols	Depending on version: BLE5.1, Wi-Fi® 5/6 LoRAWAN™ 868/915/923MHz NB-IOT/LTE-M / GNSS
Audio & haptic	Microphone, Speaker, Vibration motor
Motion Detection	3 axis accelero, tap / freefall / shock detection
Inputs / outputs	3 tactile customizable buttons (i.e. up, down, home) 2 top LEDs (green, orange, red) Duress/tamper function detector USB-C Data and battery charge

NFC	NFC card emulation : type 4 NDEF card, emulated MiFare DESFire, routed to Smartcard
Smartcard	Externally accessible 4FF (nanoSIM) drawer for ISO7816 contact cards
Certification	CE, FCC on going, ROHS
Real-time location system (RTLS) support:	Wi-Fi 2.4 GHz: RSSI send/scan (Cisco Meraki, HPE Aruba Networking, AiRISTA/Ekahau Blink) BLE 2.4 GHz: Angle of Arrival (AoA) scan (Quuppa, Sony Observer, etc.) BLE emit/scan: iBeacon, Eddystone, UID

Variants:

Base WiFi/BLE
Add LTE-M / GNSS
Add LoraWAN

CC2-A0
CC2-AL
CC2-G

Accessories & Charger



Belt Clip - IA-BC2
Hard Clip with flexible band,
RAL 9003, 12g



Lanyard Clip - IA-LC2
PC/ABS, exchangeable
RAL 9003, 7g



Lanyard Duress Clip - IA-LCD
magnetic trigger mechanism,
PC/ABS, exchangeable, RAL 9003, 10g

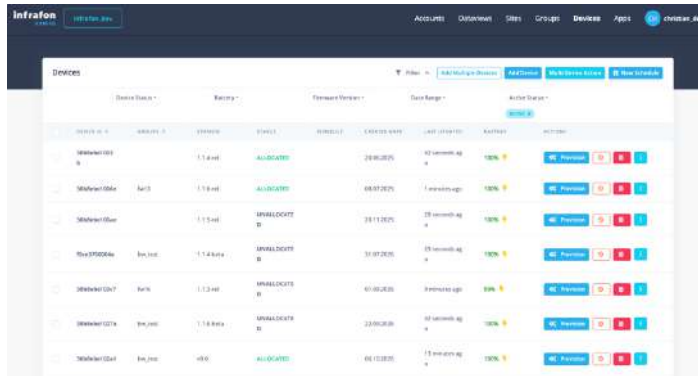


10X Multi Charger - IA-MC10A
Coated stainless steel frame, USB-C
RAL 9003, 600g

Software Products

IES management platform + MQTT Server (ISMxx)

The IES is the management and communication platform. It enables admins to add devices, structure them in entities, sites and groups to manage configuration such as network settings or authentication protocols. It is also used to manage the file system on each device as well as to schedule firmware updates.



The screenshot shows the 'Infrafon' management platform interface. At the top, there's a navigation bar with 'Accounts', 'Customers', 'Sites', 'Groups', 'Devices', and 'Apps'. The main section is titled 'DEVICES' and contains a table with columns: 'Device ID', 'Entity', 'Status', 'Firmware', 'Last Update', 'Last Seen', 'Battery', and 'Actions'. The table lists several devices, each with a status indicator (green for 'OK', red for 'Error') and a battery level. The 'Actions' column includes buttons for 'Refresh', 'Delete', and 'Edit'.

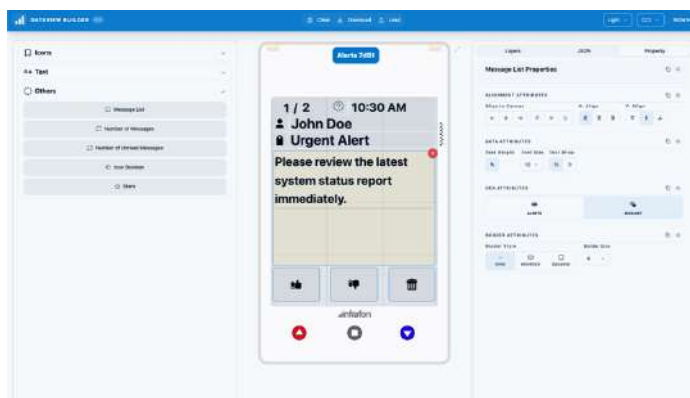
Device ID	Entity	Status	Firmware	Last Update	Last Seen	Battery	Actions
Infrafon001	Entity 1	OK	1.0.0	2020-10-20	2020-10-20	100%	Refresh Delete Edit
Infrafon002	Entity 2	OK	1.0.0	2020-10-20	2020-10-20	100%	Refresh Delete Edit
Infrafon003	Entity 3	OK	1.0.0	2020-10-20	2020-10-20	100%	Refresh Delete Edit
Infrafon004	Entity 4	OK	1.0.0	2020-10-20	2020-10-20	100%	Refresh Delete Edit
Infrafon005	Entity 5	OK	1.0.0	2020-10-20	2020-10-20	100%	Refresh Delete Edit
Infrafon006	Entity 6	OK	1.0.0	2020-10-20	2020-10-20	100%	Refresh Delete Edit
Infrafon007	Entity 7	OK	1.0.0	2020-10-20	2020-10-20	100%	Refresh Delete Edit
Infrafon008	Entity 8	OK	1.0.0	2020-10-20	2020-10-20	100%	Refresh Delete Edit
Infrafon009	Entity 9	OK	1.0.0	2020-10-20	2020-10-20	100%	Refresh Delete Edit
Infrafon010	Entity 10	OK	1.0.0	2020-10-20	2020-10-20	100%	Refresh Delete Edit

An Infrafon MQTT server is provided with the management platform, but also custom MQTT servers can be used in combination.

The IES is available as cloud or self-hosted / on-premise.

Dataview Designer (IS-DV1A)

The Dataview Designer enables users to create custom application screens using a variety of widgets, that can then be linked to backend application logic.



Voice Functions (CC2-SV01)

Specific firmware and backend versions enabling application vendors and customers to use:

- SIP client for PBX Server VoIP calls
- IES Speech to Text conversion on different language models
- Custom Integrations e.g. via WebSocket