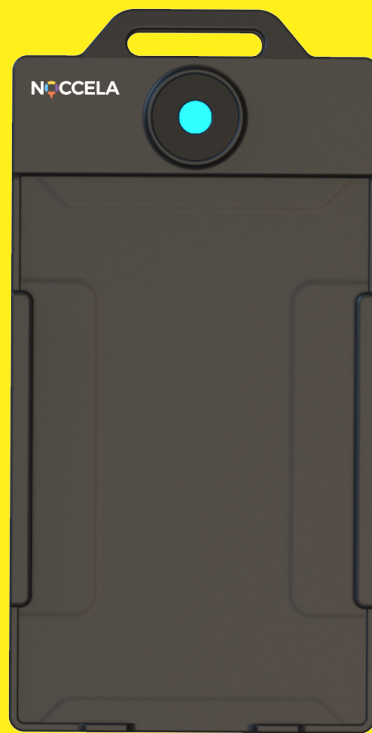


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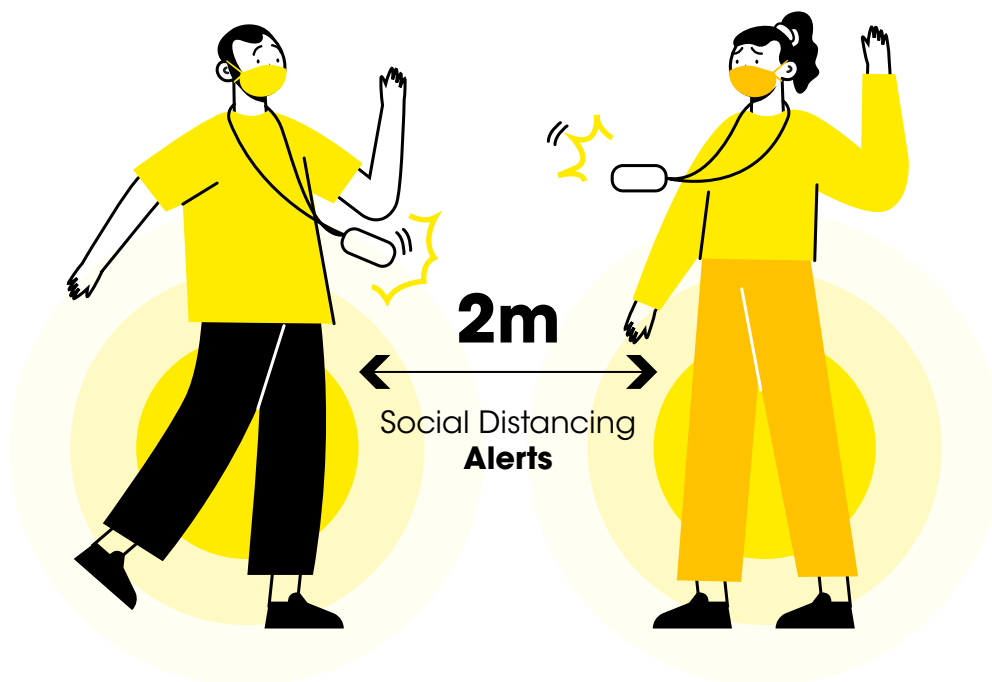
Noccela ID Badge



Noccela ID Badge

Noccela ID Badge is a UWB based proximity detection device perfect for social distancing and contact tracing applications. The tags generate alerts when close to each other and send the contact data to server via a UWB beacon for Contact Tracing.

Social Distancing Alerts



FEATURES

- Up to 10 cm in accuracy
- Low Power Usage
- Rechargeable Battery – lasts 24 hours on a single charge
- Secure and reliable
- Wearable form factor (lanyard style)
- LED Indication and Buzzer for Alerts
- IP67



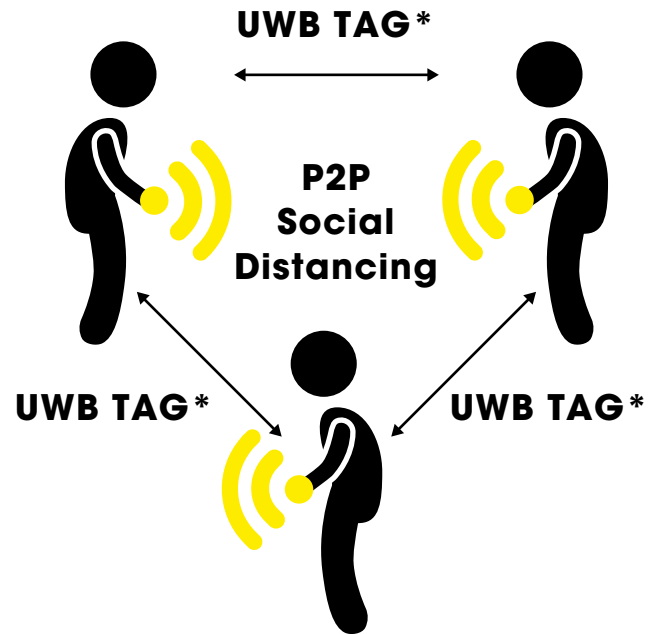
TECHNICAL SPECIFICATIONS

Item	Description
Overview	
Product Name	Noccela ID Badge
Standard	IEEE802.15.4-2011 UWB compliant
Recharging Interface	USB DCP charging with Type C connector and/or pogo pins
Accuracy	10 cm
Button	Single tactile button to reset the device
Recharging Voltage	4.2V
Instant Power Consumption	Less than 500mW
Standby Time	>15 days
Refresh Time	Less than Second
LED	LED Three Color (RGB)
Buzzer	1 Piezoelectric buzzer(84dB)
Sensors	3-axis Accelerometer
Battery Capacity	550mAh Li-Polymer Battery (IEC 62133-2 compliant)
Battery Life	up to 24 hours (active state) on a single charge (considering proximity alert time of 6 minutes every hour)
Charging Time	2.2 hours
Peer-to-peer Proximity Alerts	
Between 7.76 ft. to 6.13 ft.	Orange LED Indication + beeps every second (1 Hz)
less than 6.13 ft.	Red LED Indication + beeps every second (1 Hz)
RF(UWB)	
Working Frequency	6489.6MHz
Physical Rate	110 Kbps 850 Kbps 6.8 Mbps
Output Power(25° C)	-41dBm/MHz
Channel Frequency Width	500MHz
Antenna Type	Integral
Antenna gain	0.5dBi
Software	
UWB	ToF
UWB Range	50m@-41dBm/MHz,6.8Mbps,LOS
Sleep	Inactivity (no motion) for 60 seconds - configurable
Upgrade	OTA
Configuration	OTA
Physical Specification	
Size(mm)	114.3 x 58 x 8 mm
Weight(g)	42g
Circumstances	
Temperature	Operating: 0°C to 50°C / Storage: -20 °C to + 60 °C
Humidity	0%~90% without condensation
Water Proof	IP67
RoHs	Yes

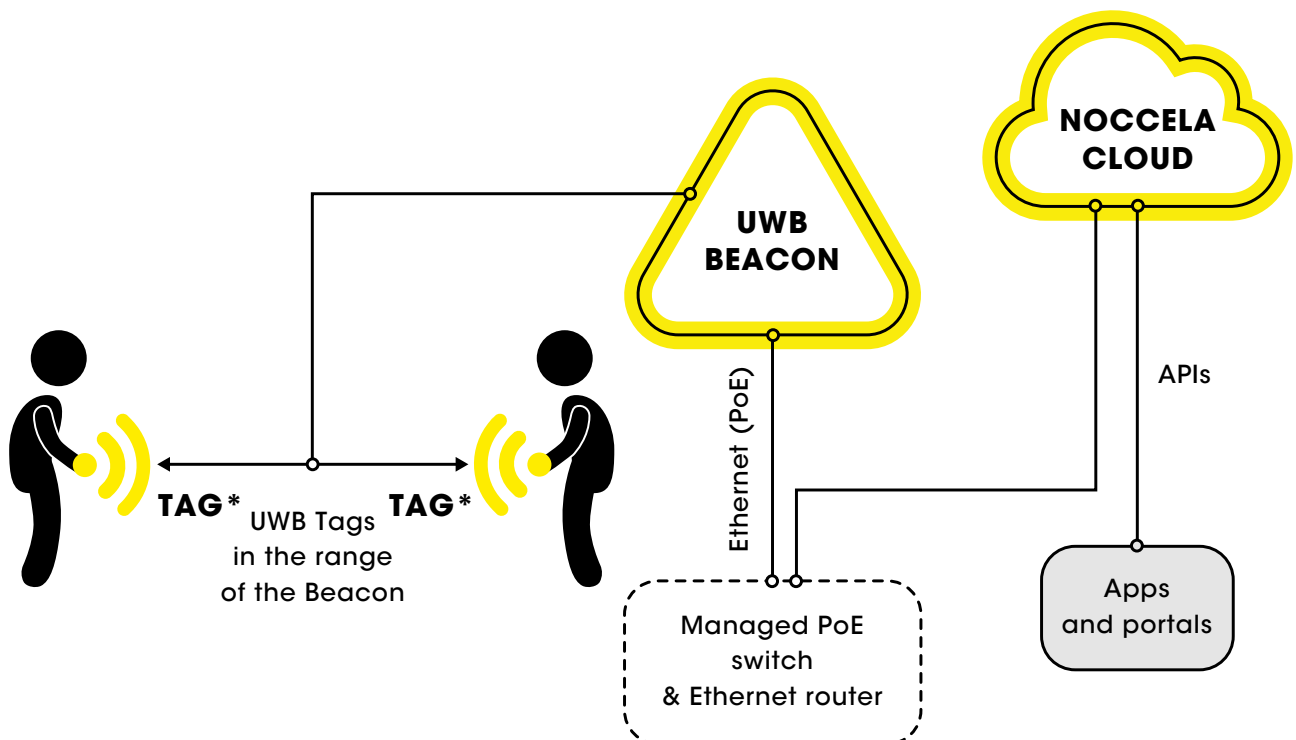
APPLICATION STRUCTURE

SOCIAL DISTANCING AND CONTACT TRACING

- Peer-to-peer Proximity and alerts with Tags
- Configurable distance alerts with sound and light
- Flexible and adjustable
- Minimal infrastructure
- Contact tracing data for contamination chain

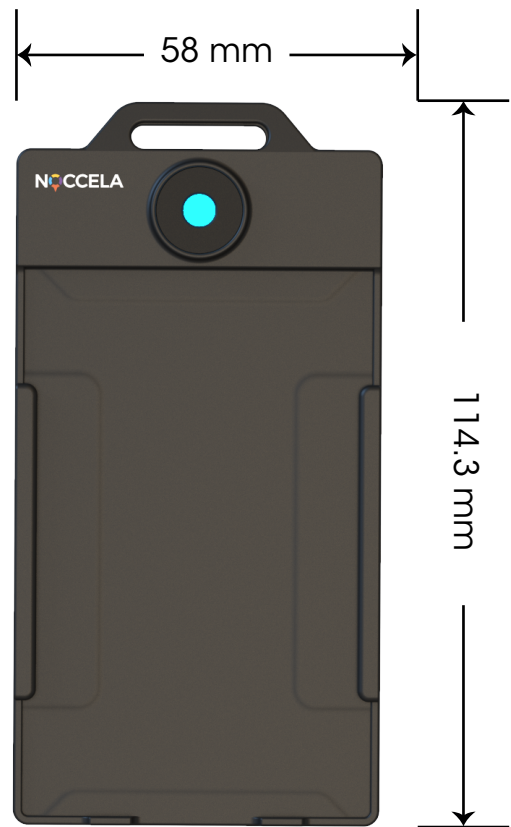


The data is synchronized to cloud while tags are in the range of the beacon





MECHANICAL DESIGN



Color: Black
Material: ABS Plastic
Finish: Matte