



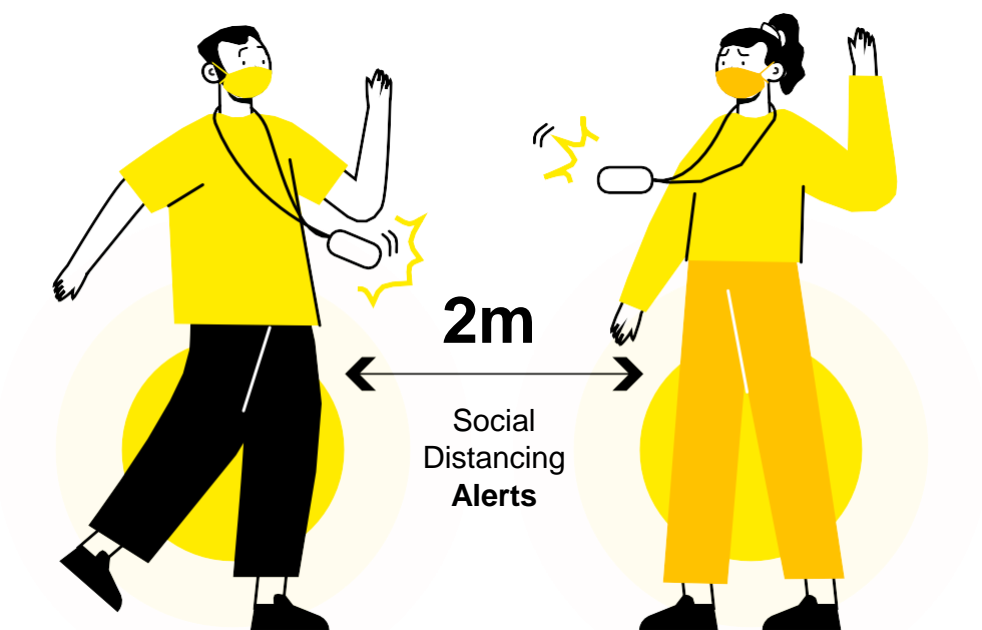
Noccela ID Badge



Noccela ID Badge

Noccela ID Badge is a UWB-based personnel tracking and proximity detection device perfect for industrial safety and occupancy measurements. Since 2019, it has been most popular around the world with Noccela social distancing and contact tracing solution. The tags generate alerts when they're close to each other and send the contact data to the server in real-time via a Noccela beacon. In case of an exposure to Covid-19, the historical data is used to trace back the close contacts that needs to be selectively quarentined, instead shutting down the work site.

Social Distancing Alerts



FEATURES

- Up to 10 cm in accuracy
- Low Power Usage
- Rechargeable Battery – lasts upto 2 weeks on a single charge
- Secure and reliable
- Wearable form factor (lanyard style)
- LED Indication and Buzzer for Alerts
- IP67

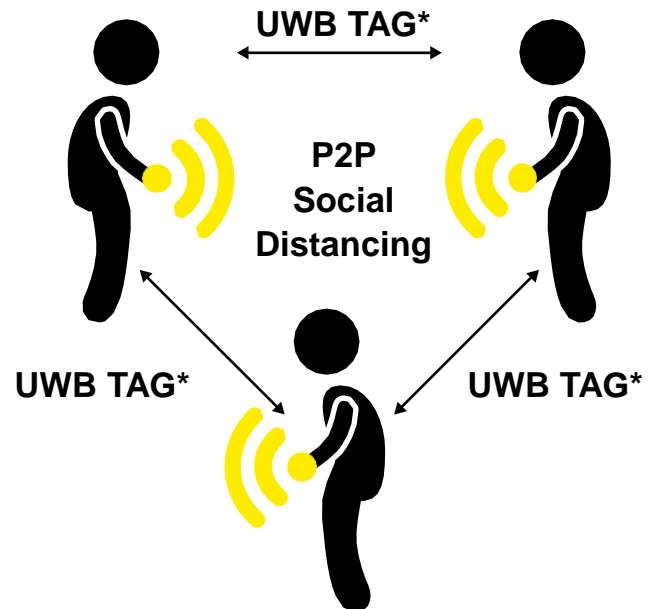


TECHNICAL SPECIFICATIONS

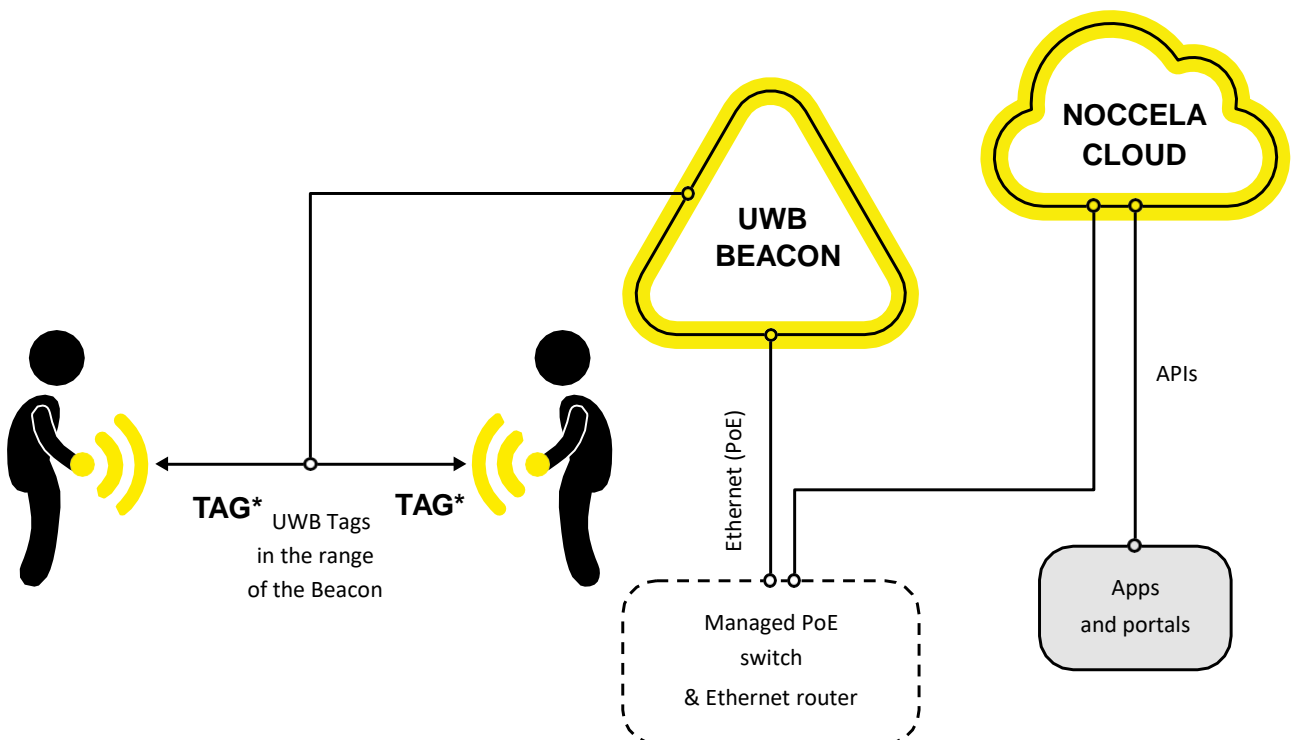
Item	Description
Overview	
Product Name	Noccela ID Badge
Standard	IEEE802.15.4-2011 UWB compliant
Recharging Interface	USB DCP charging with Type C connector and/or pogo pins
Accuracy	up to centimeter-level
Button	Single tactile button to call for assistance, power-on/off and reset the device
Recharging 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	Upto 6 months in personnel tracking mode, and up to 2 weeks in proximity detection mode on a single charge
Charging Time	2.2 hours
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

SOCIAL DISTANCING AND CONTACT TRACING SOLUTION **STRUCTURE**

- 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