

TanE Wireless

Good Safty, Happy Family

TanE NB 01

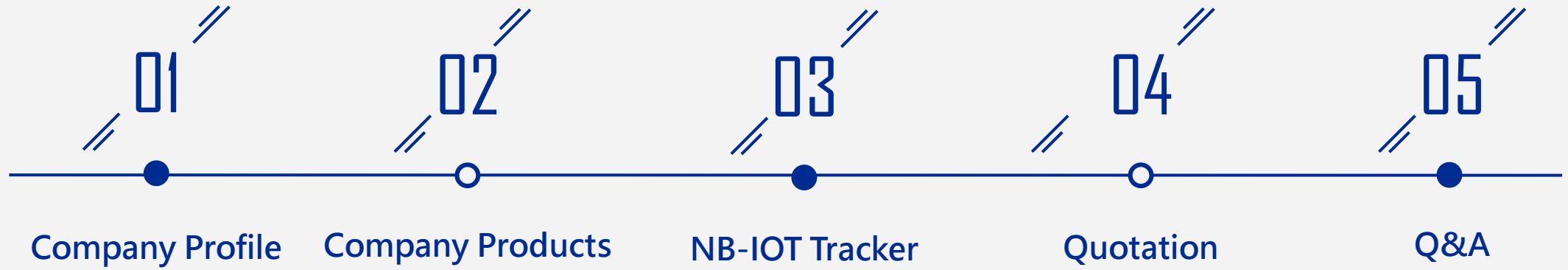
NB-IOT | AI | 5G Mobility

TanE AIOT Cop.

竹寶智能科技股份有限公司



Content





TanE wireless was established by 6 engineers, who devoted to researching wireless devices for more than twenty years. Based on two decades of experience, we developed networking and new mobile wireless communication techniques at the beginning of Entrepreneurship in 2019. In the present, we apply our technique of new wireless communication to NB-IOT Tracker, 5G AI Dash Cam, 5G MiFi and more wireless products.

The purpose of our company is "Good Safety, Happy Family".

By holding this belief, we hope our technique and products will bring people more convenient, healthier and safer life.



Timeline



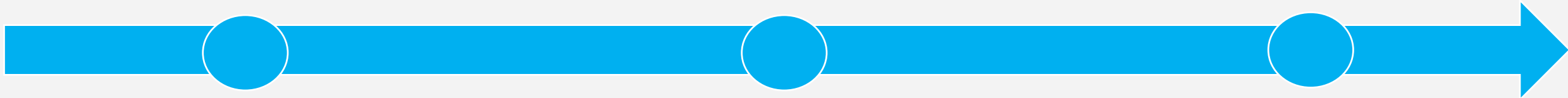
Established



Station at Hsinchu
Science Industrial Park



Integrate electronic
system of electric vehicle



January 22 , 2019

November 11 , 2021

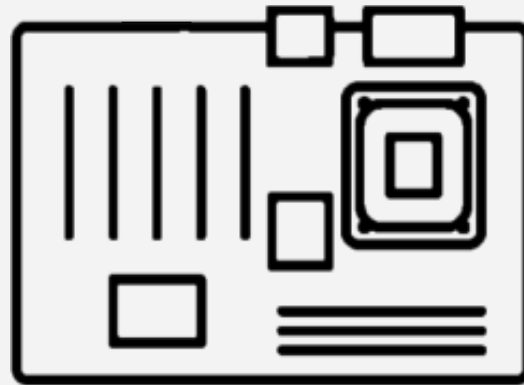
In next three years



Our Core Technology



Ant 、 RF
Development



BB
Development



SW 、 AI
Networking
Development



July, 30 . 2019

TanE AIOT **Wins The SBIR Innovative Idea Award** of Taiwan,2019 !

November, 11 . 2021

Marched into **Hsinchu Science Industrial Park (HSIP)**

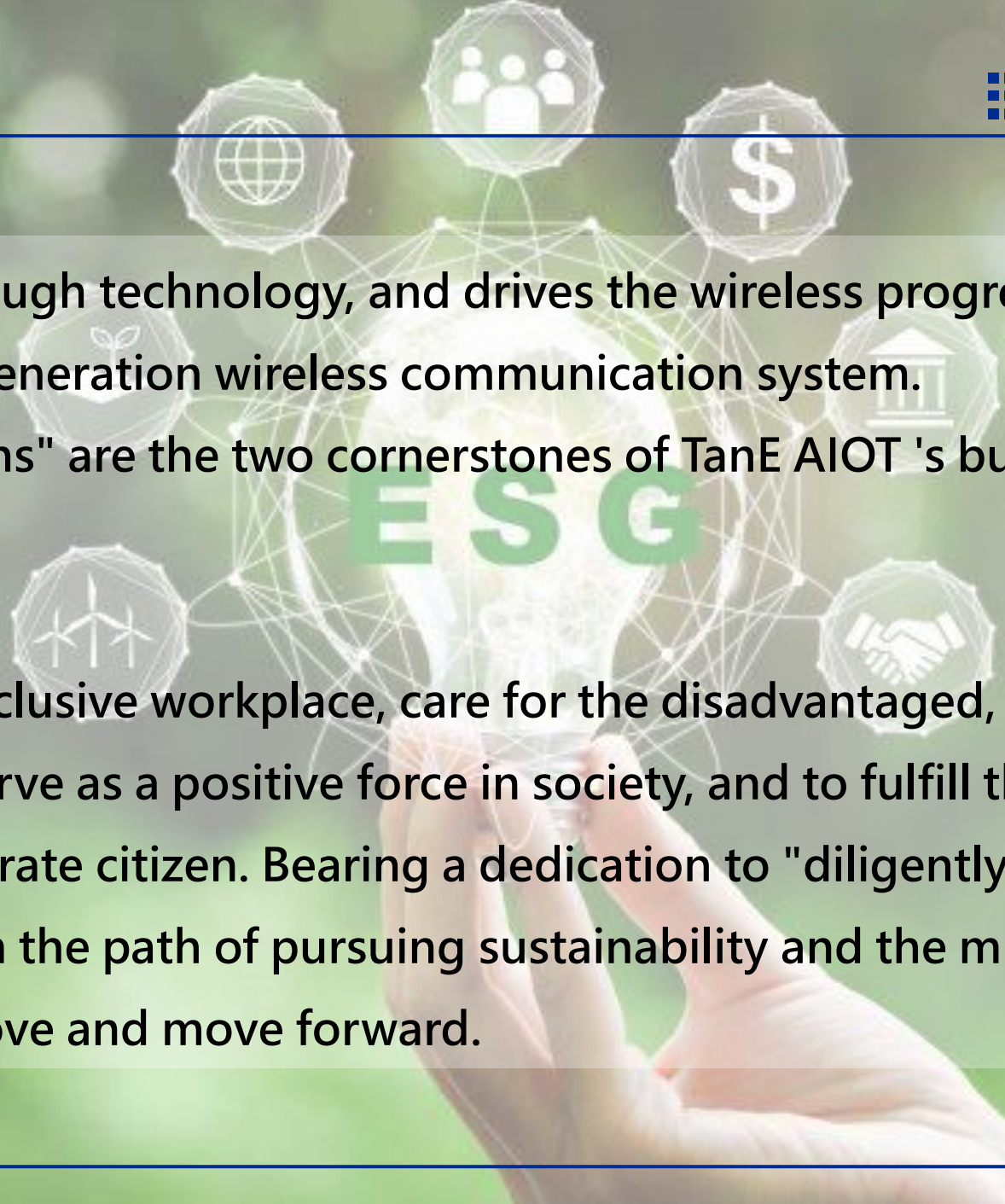
March,24 . 2022

Participated in **La French Tech Taiwan -"How Can Innovation Improve Our Lives in the City? "**

Live link :

<https://www.youtube.com/watch?v=GSISgtifi98>

(2:01:22--2:16:59 TanE AIOT presentation)



TanE AIOT practices innovation through technology, and drives the wireless progress of global technology through the new generation wireless communication system. "Integrity" and "responsible operations" are the two cornerstones of TanE AIOT 's business, and its unwavering commitment.

TanE AIOT continues to create an inclusive workplace, care for the disadvantaged, and build a responsible supply chain to serve as a positive force in society, and to fulfill the Company's responsibilities as a corporate citizen. Bearing a dedication to "diligently doing everything right", we never stray from the path of pursuing sustainability and the mutual good, and always seek a way to improve and move forward.



“ Our mission is to be the trusted technology and capacity provider of the global wireless communication system industry for years to come. ”



Operating Strategy



1. Integrity
2. Integrity means
3. Focus on our Core Business: [Wireless Communication System](#)
4. Globalization
5. Long-term Vision and Strategies
6. Treating Customers as Partners
7. Building Quality into all Aspects of our Business
8. Unceasing Innovation
9. Fostering a Dynamic and Fun Work Environment
10. Keeping Communication Channels Open
11. Caring for Employees and Shareholders, and Being a Good Corporate Citizen

January 22, 2019



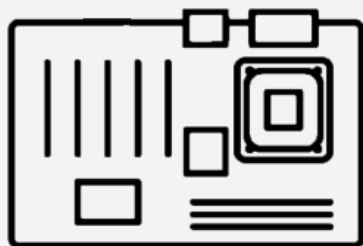
November 11, 2021



In three years

Integrate
electronic
system of
electric vehicle

Our Core Technology



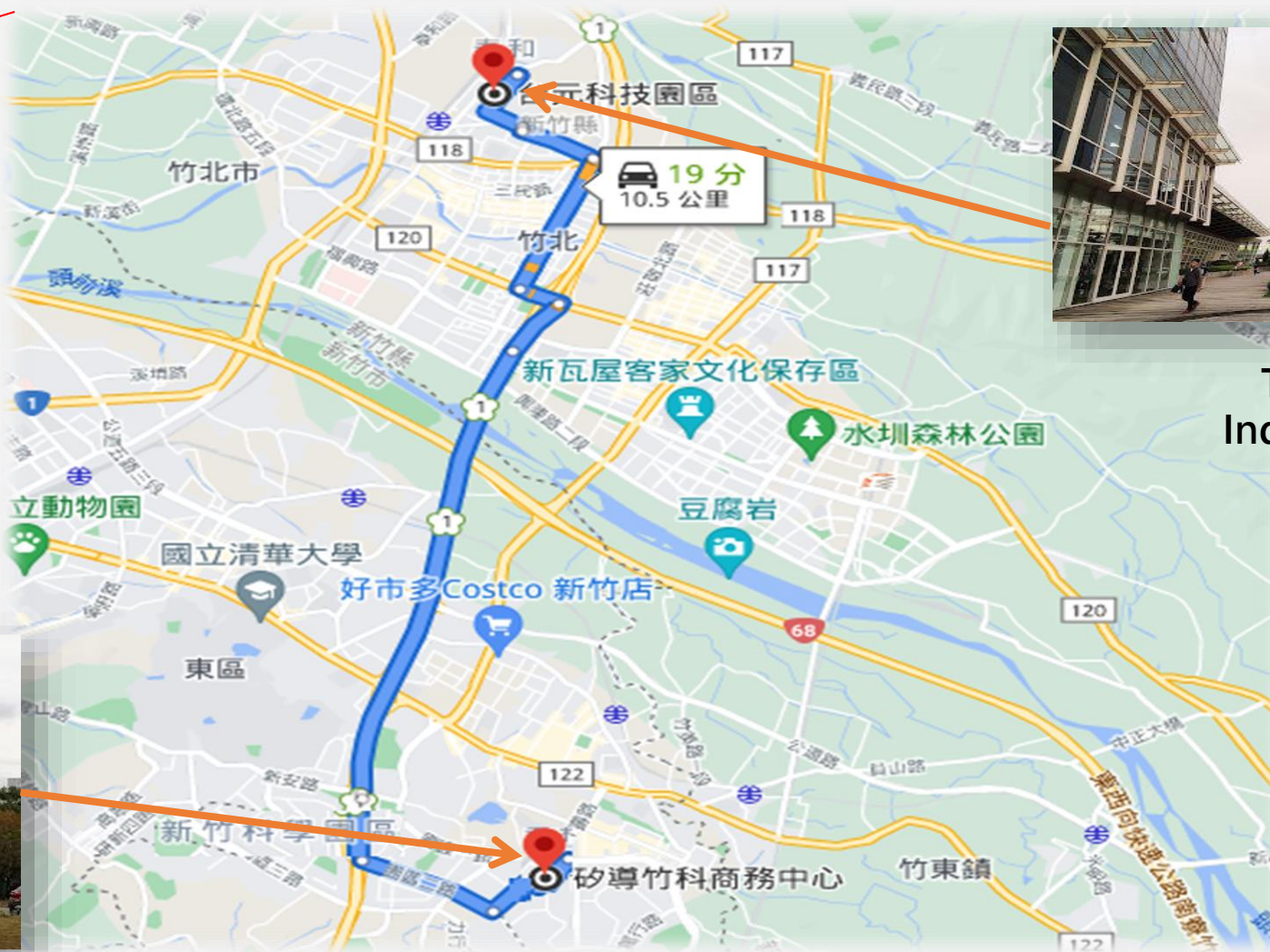
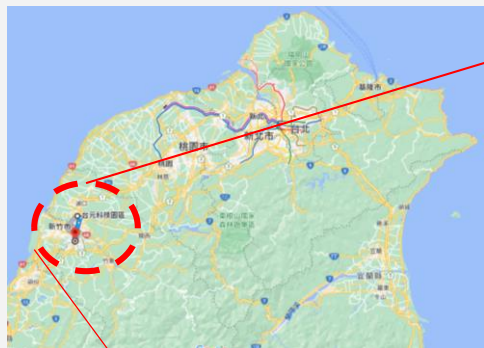
Software

**TanE** Wireless

Good Safety, Happy Family



TanE AIOT Offices Location



Tai Yuen Hi-Tech
Industrial Park Office

Hsinchu Science Industrial Park
3rd Office





OEM Factory Partner



➤ TanE AIOT Corp.

Founded on 22 Jan. 2019

Capital: USD 1 million

HQ in HsinChu Science Park ,Taiwan

Company products majored on

NB-IOT/ 5G AI Smart Cam ,5G Mobility Product Development

SP (Brazil)

108K ft² =10K meter²



➤ **Partner**(Arima Comm)Factory Employee:

4,000 persons

➤ **Partner**(Arima Comm)RD:

450 persons in Taiwan 400 persons in China

Partner Arima Comm Wujiang (China)

828K ft² =77K meter²





Our company's products include :

- TanE Wireless 5G MiFi Product
- TanE Wireless NB-IOT Tracker Product
- TanE Wireless TanCa Full Wireless Cam
- TanE C-V2X (Cellular Vehicle-to-Everything)



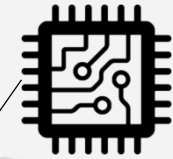


TanE Wireless 5G MiFi Product



5G NR: 1.8 Gbps/300 Mbps

LTE CAT18 FDD-LTE 1.2 Gbps/150Mbps



Qualcomm SDx55

Li-ion Battery

5000mAh



About 8H



5G/4G/3G

802.11 a/b/g/n/ac/ax

TanE wireless 5G Mifi Product



TanE NB01 Tracker Product

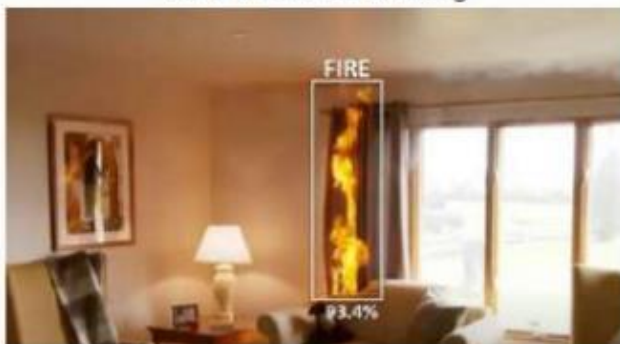


TanE Wireless TanCa WiFi AI Cam



AI feature set

Real-Time Fire Warning



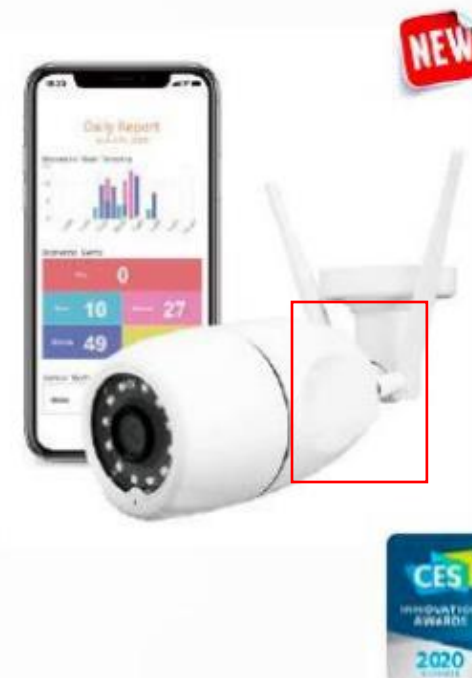
Human and Car Detection



Real-Time Face Recognition



Human and Pet Detection





TanCa Wireless

**For Home Security
Total Solution**



TanCa 01 (WiFi)



叮咚 wireless Cam

TanCa 02 (WiFi)

TanE wireless



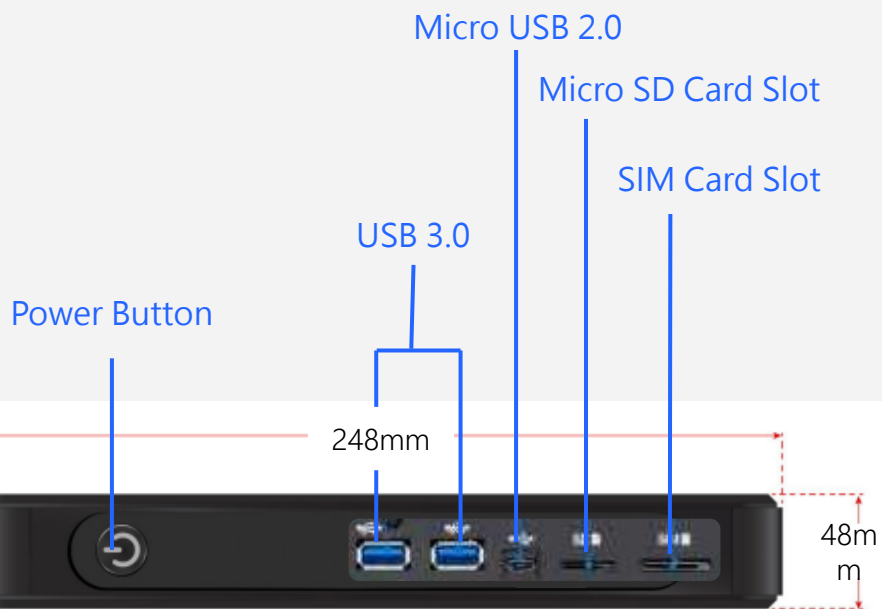
小叮嚀 wireless Cam

TanCa 4G (LTE) or TanCa 05 (WiFi)

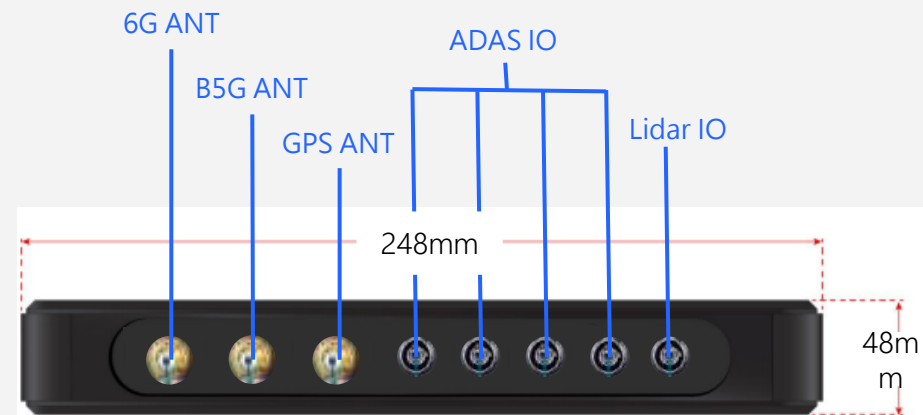
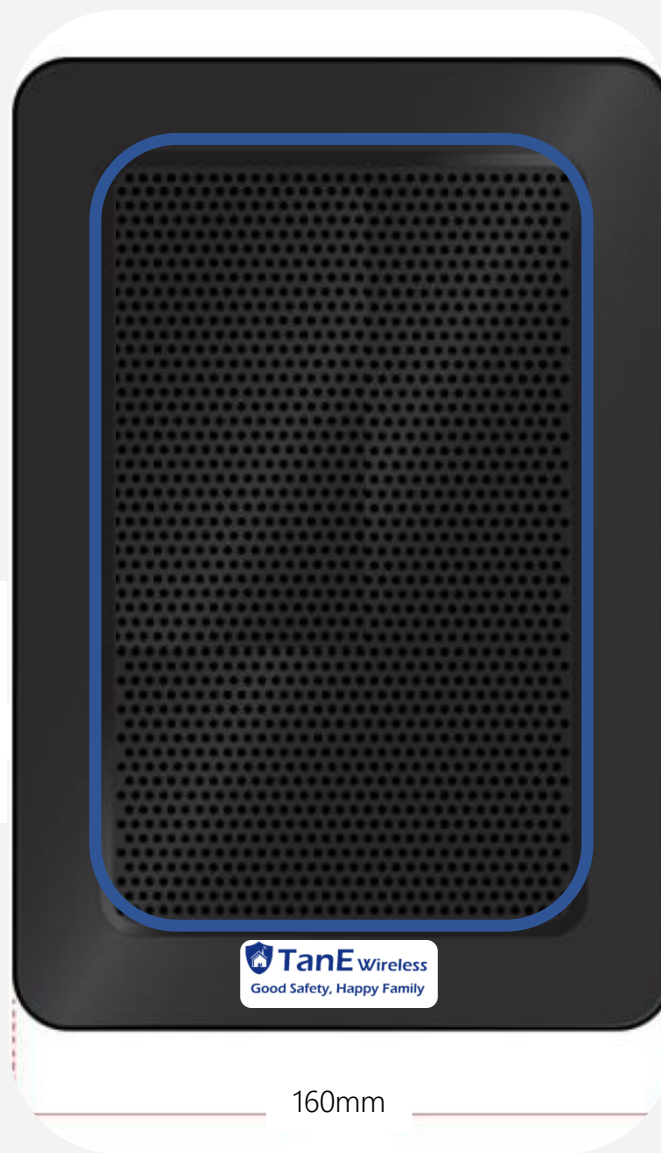


Solar wireless Cam

03 TanE C-V2X (Cellular Vehicle-to-Everything) OBU



Left Side



Right Side

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TanE NB 01



01 TanE NB 01 specification



Model	NB-IOT LTE smart tracker
Dimensions	Smart tracker < 58 mm*38 mm* 16mm
Baseband Chipset	MDM9205 Cat M1/NB2(Rel.14)
Battery	650mAh
Working Temperature	-10°C to 50°C
WWAN	LTE Cat M1(Max. 588Kbps (DL), Max. 1119Kbps (UL))/NB2(Max. 127Kbps (DL), Max. 158.5Kbps (UL)) B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/B28/B66/B71/B85 EGPRS : 850/900/1800/1900 EDGE : Max. 296Kbps (DL), Max. 236.8Kbps (UL) GPRS: Max. 107Kbps (DL), Max. 85.6Kbps (UL) ※ Bands used , depend on regions for customized design with Antenna matching
SIM	Nano sim
GPS / WiFi	GPS/GLONASS/Galileo/GZSS Wi-Fi (for indoor Position)
Connections	※ BT 5.0 (option) , not included in the quotation
Antenna	Main LTE / GPS / WiFi, FPC type
charger	USB type C , 5V/1A (<2 hours)
Sensor	Acceleration/Gyroscope
Operation hours	Human&Pet Model:8 days(Effective exercise 4 hours a day, 5 minutes a positioning) Working time:22 days(Hourly positioning) Standby Time : 45 Days(Once location every four hours)
Water Proof	IP67
Buttons	POWER,SOS, Reset

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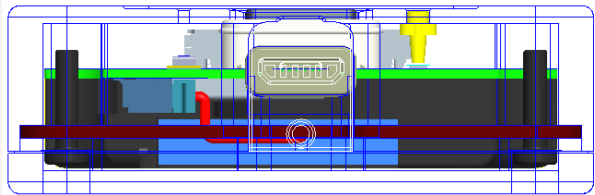
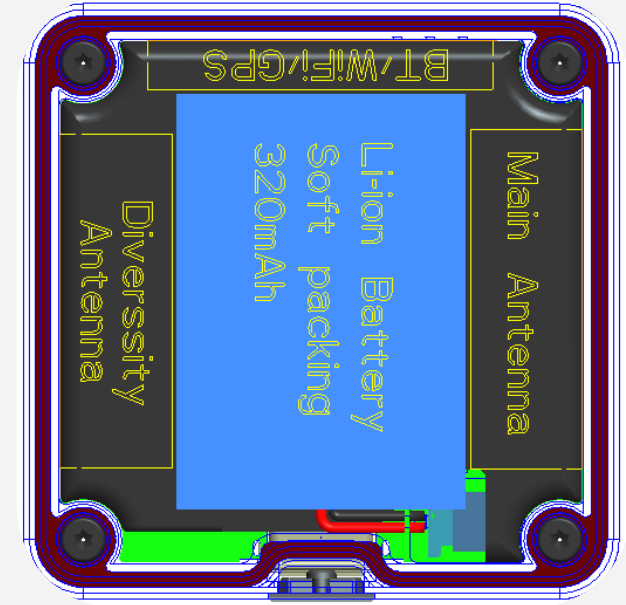
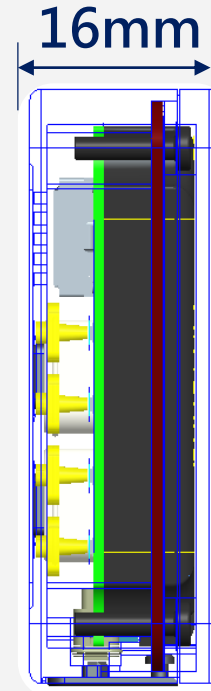
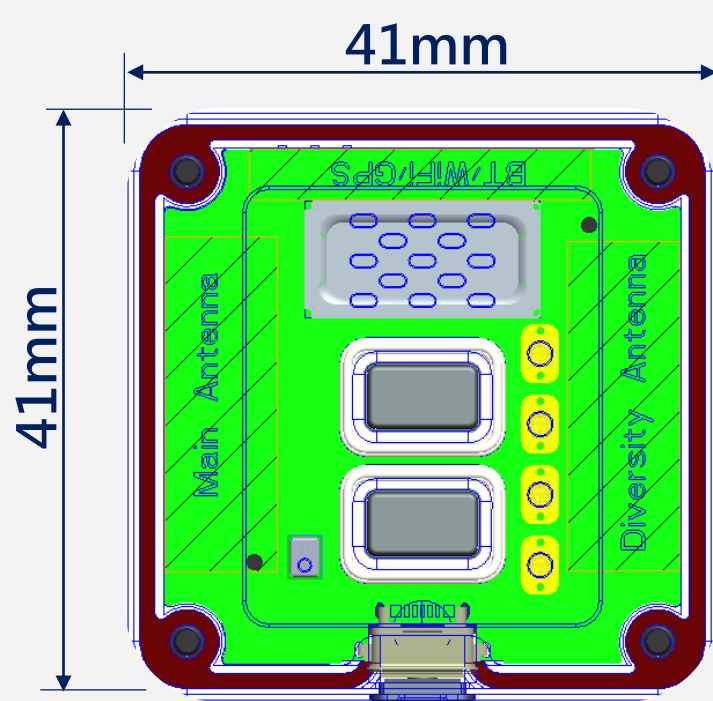
ID/ME Stacking



01 ME Stacking - Dimension (Reference)



- Dimension : L (41mm) x W (41mm) x H (16mm)



Waterproof / Dustproof design :

1. Top cover & Bottom cover => Rubber packing
2. Micro USB => WP connector + Rubber door
3. Key => Rubber base sealing
4. Light guide => WP adhesive tape + Heat staking
5. Speaker => WP Speaker + Mesh
6. Mic => Normal Mic + WP membrane
7. Screw => Screw + WP Nylok

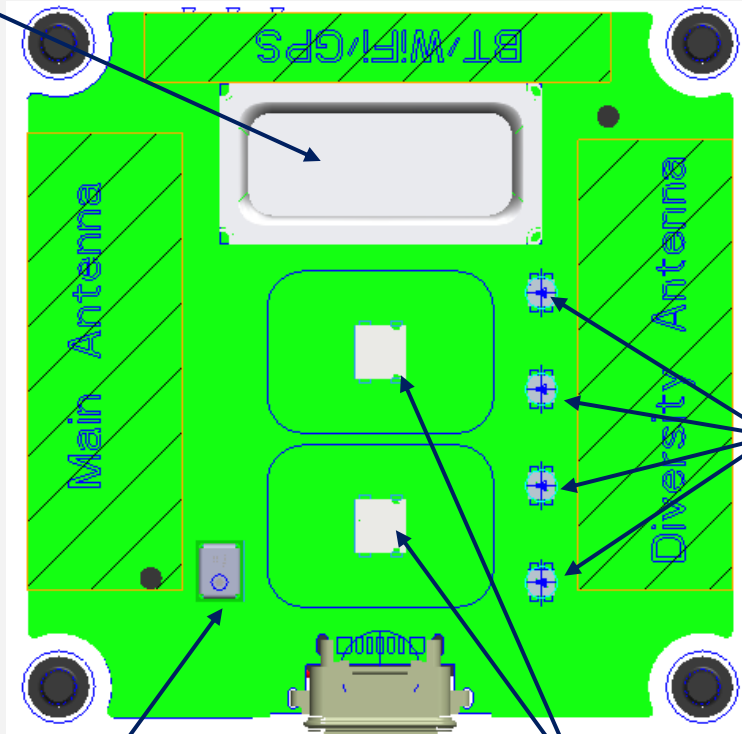
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ME Stacking - Placement



Front View

Speaker (WP type)



MIC

Key
switch

LED

Back View

Shielding can
(under the battery)

Antenna
spring

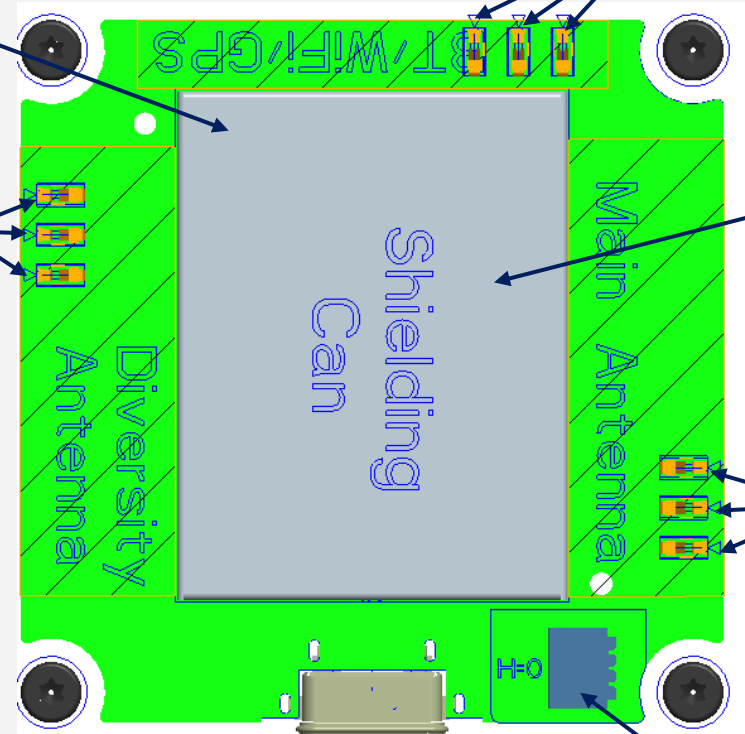
Antenna spring

Battery

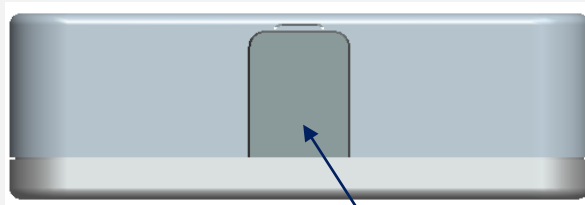
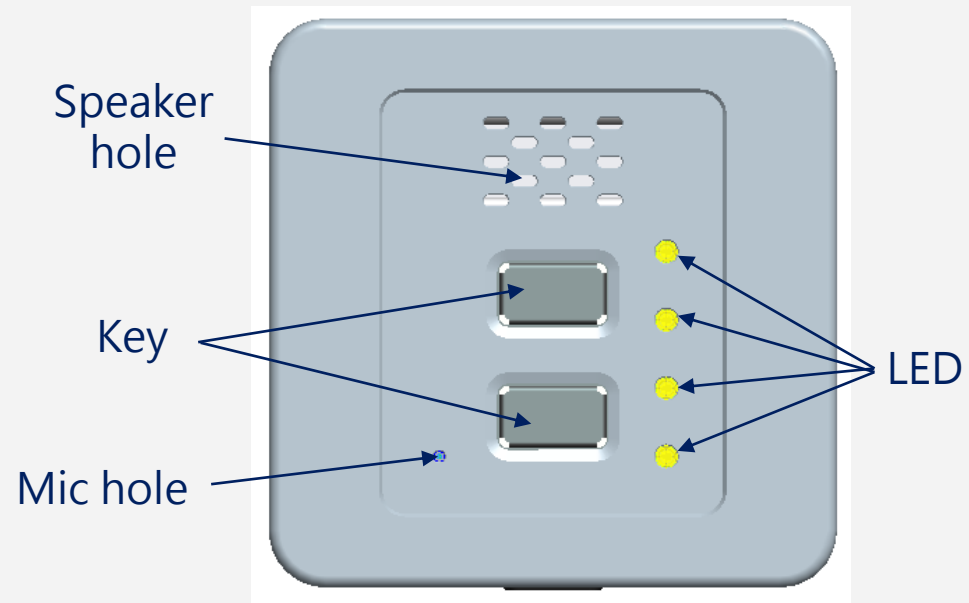
Antenna
spring

Micro USB connector
(WP type)

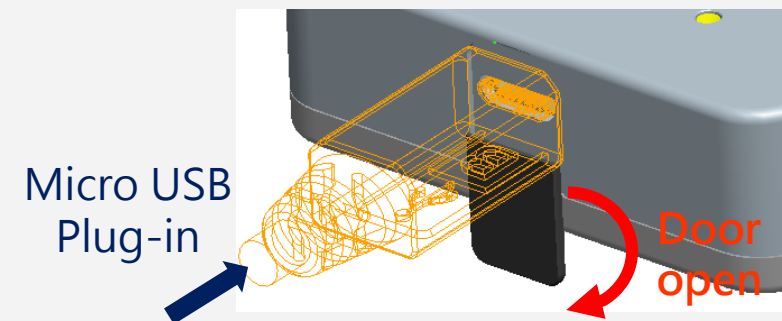
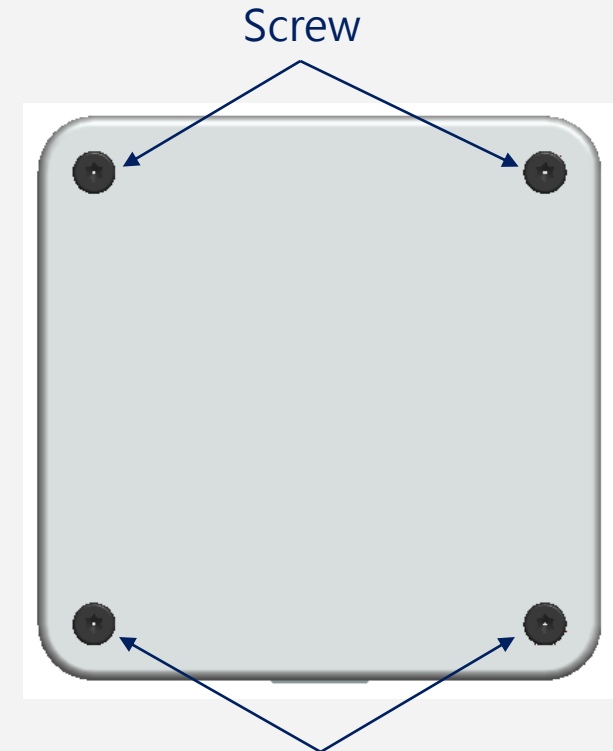
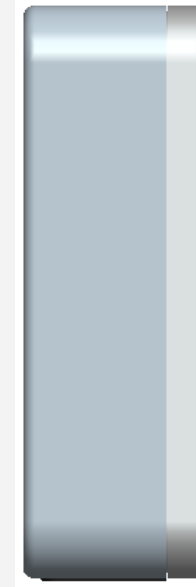
Battery
2-pin connector



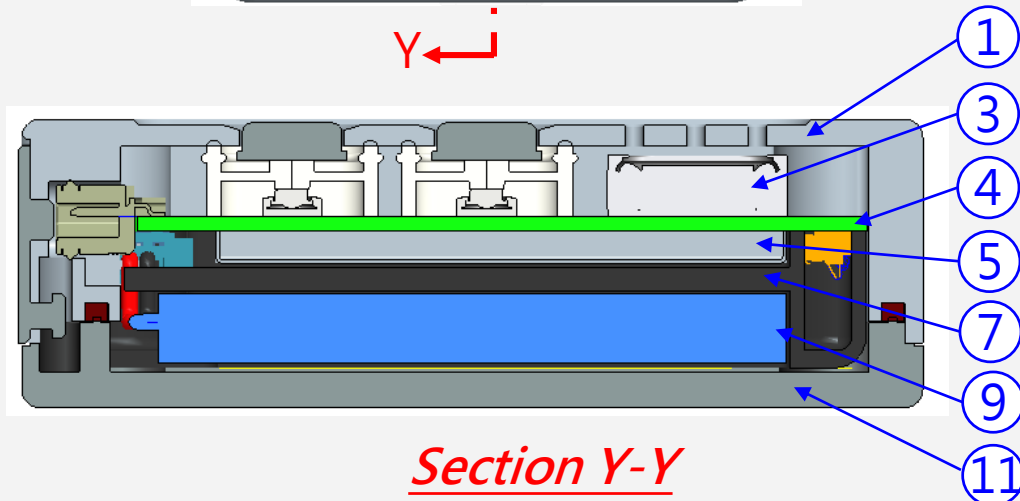
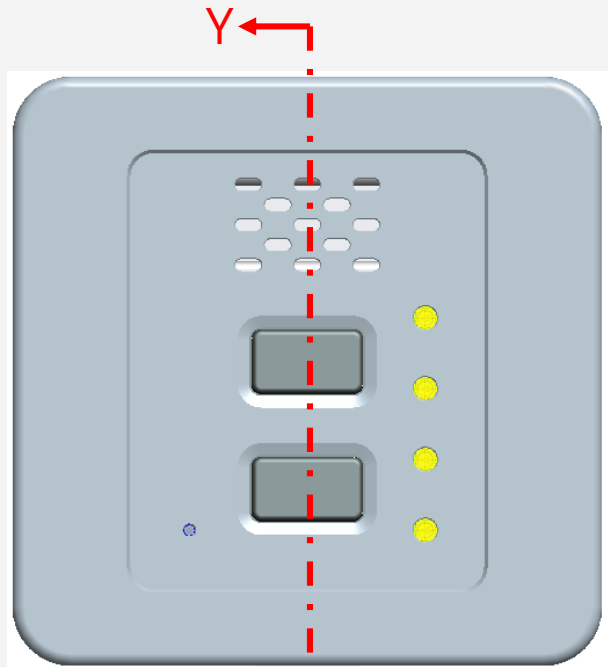
01 ID Concept (Reference)



Rubber door



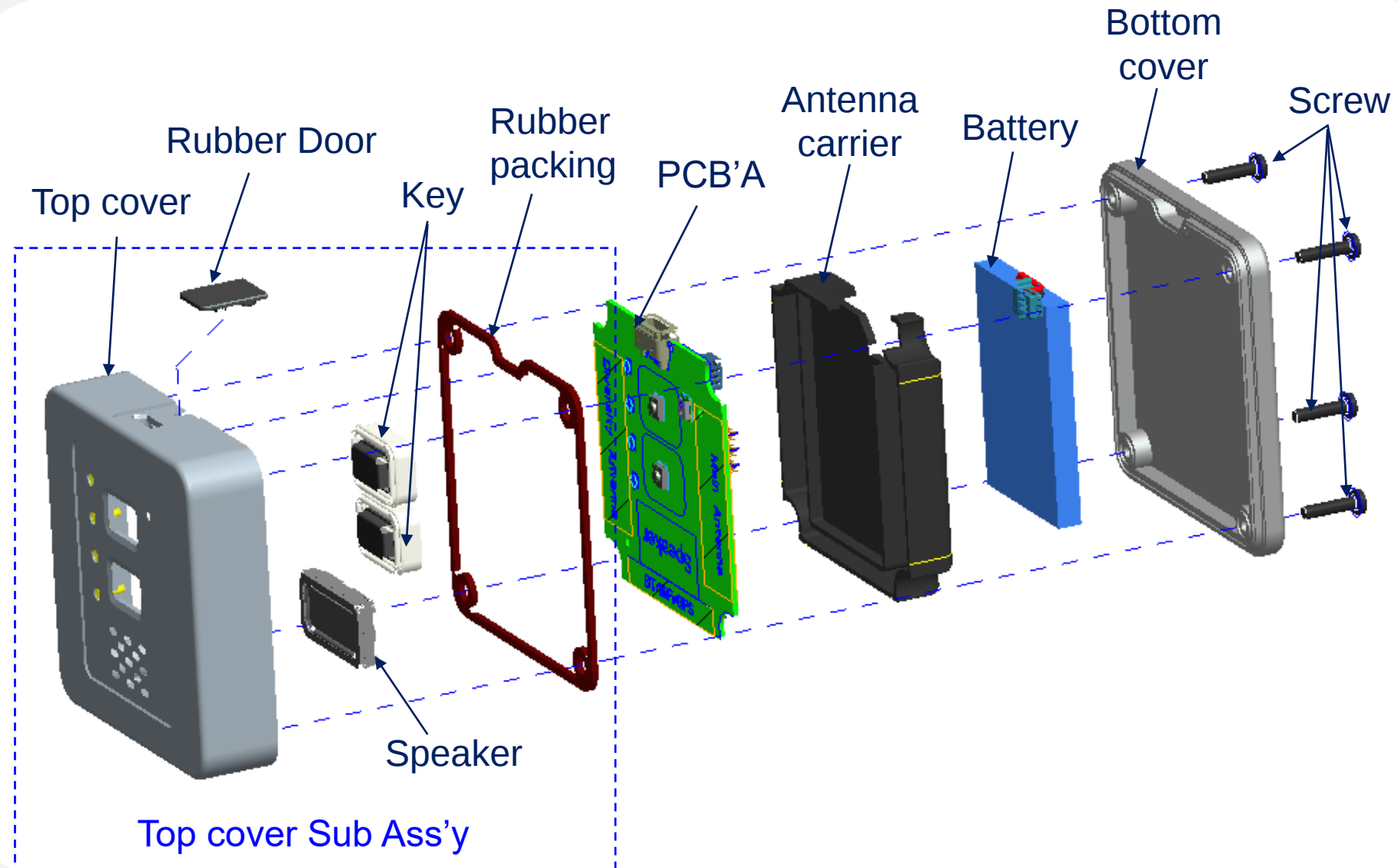
01 Thickness Analysis



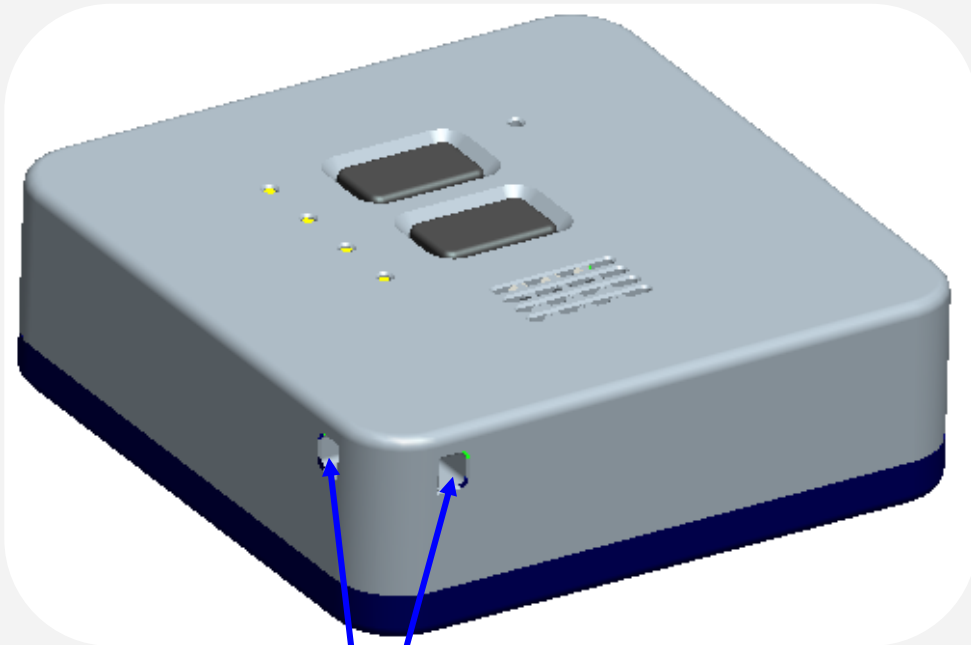
Section Y-Y

Item	Name	Dim.(mm)
1	Top cover	1.5
2	Speaker mesh + Sponge	0.5
3	Speaker (20 x 10 x 3.5mm)	3.5
4	PCB	0.8
5	Shielding can	2.0
6	Gap	0.1
7	Antenna / Battery carrier	1.5
8	Battery adhesive tape	0.2
9	Li-ion Battery (320mAh , soft packing)	4
10	Swelling gap (filled with sponge)	0.4
11	Bottom cover	1.5
SUM		16.0

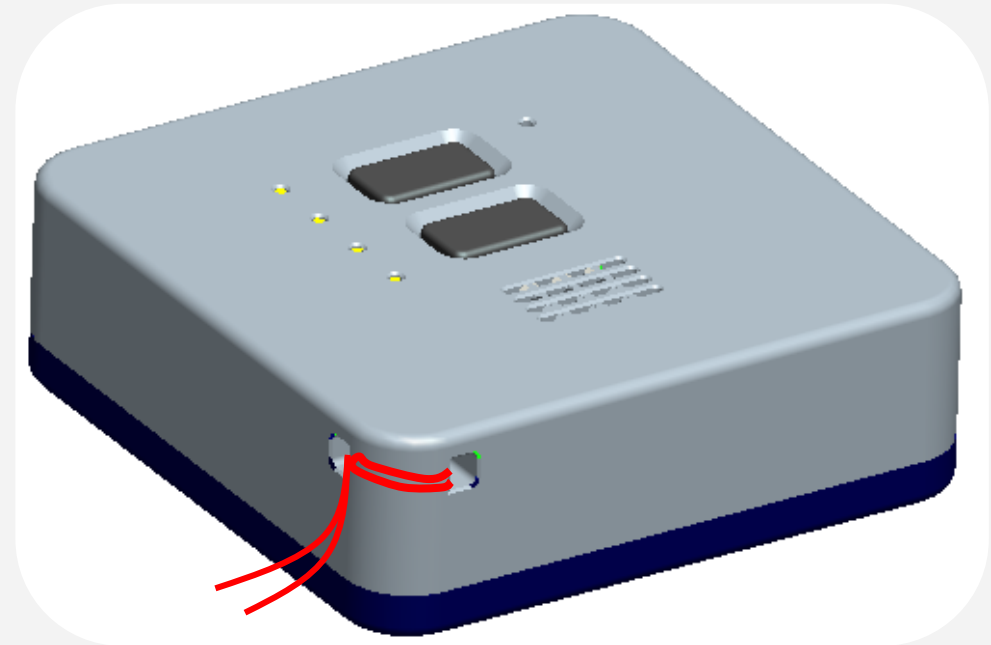
01 Exploded Drawing(Reference)

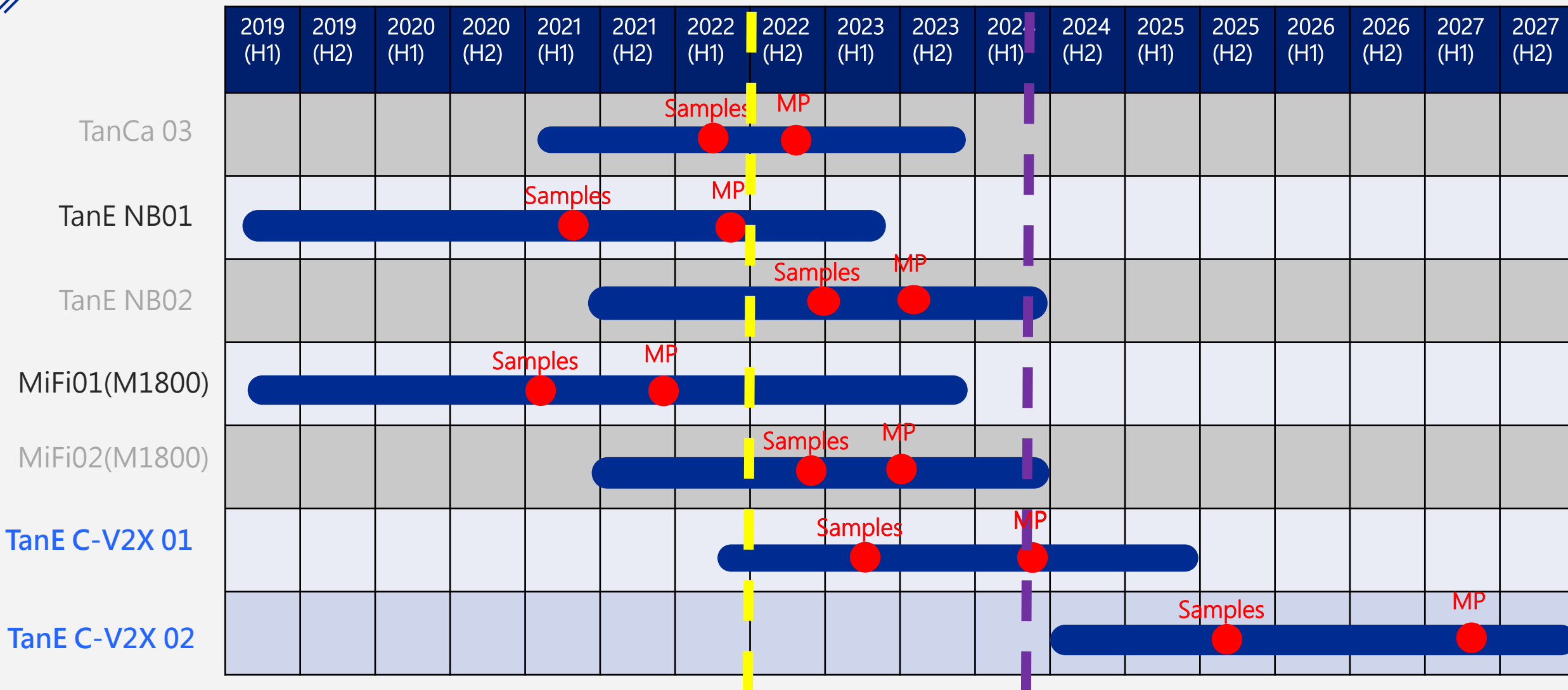


01 Lanyard Hole Proposal (Reference)



Lanyard holes







1. NB-IOT tracker MDM9205 solution , included Cat M1 /NB2

NB-IOT Tracker MDM9205	5k	10k	50k	100k	200k
BOM Cost + MVA Cost <u>Transfer Unit Price</u>					

Q&A

Good Safty, Happy Family



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Thank You!

