

CONNECTING THE FUTURE OF IOT

APAC IoT GTM Strategy Kick-off

Data & Devices

AGENDA

- GTM Strategy & IoT Team – 10 mins
- IoT Portfolio introduction – 40 mins
 - Antenna
 - Data & Power Connector
- Application/Case studies – 20 mins
- FY23 Marketing Plan & Support – 10 mins
- Q&A – 20 mins

Market & Strategy

IoT Sales
Jacky Hsu

EVERY CONNECTION COUNTS



Target Market Sectors & End Points – Customers

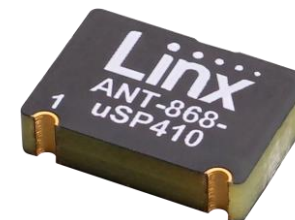
Smart City	Industrial IoT	Telematics / Transportation	Smart Energy / Utilities	Retails & Smart Health
<ul style="list-style-type: none"> • Surveillance Camera • Environmental Sensor • Safety Security Devices • Indoor/Street Lighting • Parking & Waste Mgmt 	<ul style="list-style-type: none"> • Environment/ Agricultural Sensor • Industrial Gateway • Tracking Tag • Robots • Remote Control • Farming / Construction Tool 	<ul style="list-style-type: none"> • T-box • In-vehicle Toll • OBD • E-call / Insurance Device • Infotainment • Public Safety • Tracker 	<ul style="list-style-type: none"> • E/W/G-meters • EV Charging Station • Thermostat • Energy Monitor Unit • Smart Socket • Utility Box 	<ul style="list-style-type: none"> • POS Terminals • Digital Signage • ESL • Vending Machine / Kiosk • RFID Reader • Health Tracker • Diagnostic & Scanner

한화테크윈 IWASAKI ALPTOP	ADVANTECH uniview Baicells	MOXA USR IOT SIERRA WIRELESS	unabiz LEAD CUSTOMER SETS TSINGOAL	bluewireless Landis+Gyr Sydney WATER noodoeEV	UBIIK CYG OSAKI	远望谷 Verifone CIPHER LAB
neoway MEIG TDTECH	SUNSEA	Fibocom	MODULE IDH ODM	Lierda SIMCom	MegaChips	flex M

Tremendous Opportunities Beyond DND Core Industries



Industry Leader in Antenna
Performance
and Reliability



Wireless made simple®

IoT Asia Sales & Business Development Team



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IoT Sales Manager
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Brenda Chou
IoT Sales Manager
Asia ex.China
Brenda.chou@te.com

How We Can Help

- Lead TE IoT solution introduction
- **Join customer visit** / roadshow
- Provide quick turn **product recommendation** and tech support
- Hub of **IoT application knowledge** and mind sharing
- Coordinate resource to facilitate opportunity conversion
- Coach internal stakeholders and external partners
- Develop partnership with ecosystem players

A Solution Center of IoT Intelligence – Talk to Us Today

IoT Product Portfolios

Antenna
Mingying Tsao

EVERY CONNECTION COUNTS



Top 1 Antenna Manufacturers In The World

TE Connectivity becomes the largest IoT antenna manufacturer / supplier with total revenue of USD80 million(est) after the acquisitions of Laird External Antenna and Linx Technologies.

<https://www.bisinfotech.com/top-8-antenna-manufacturers-in-the-world/>

There are now more than 1,000 off-the-shelf antenna part numbers available in TE Connectivity.



TE NEWS

September 8, 2021

TE Connectivity to acquire antennas business from Laird Connectivity

The acquisition of the Laird antennas business complements TE's broad connectivity product portfolio, particularly in...



TE NEWS

July 19, 2022

TE Connectivity Acquires Linx Technologies

TE Connectivity (TE), a world leader in connectivity and sensors, has acquired Linx Technologies, a leading RF components supplier in IoT markets. The deal, which closed on July 1, 2022, is another strategic acquisition that...

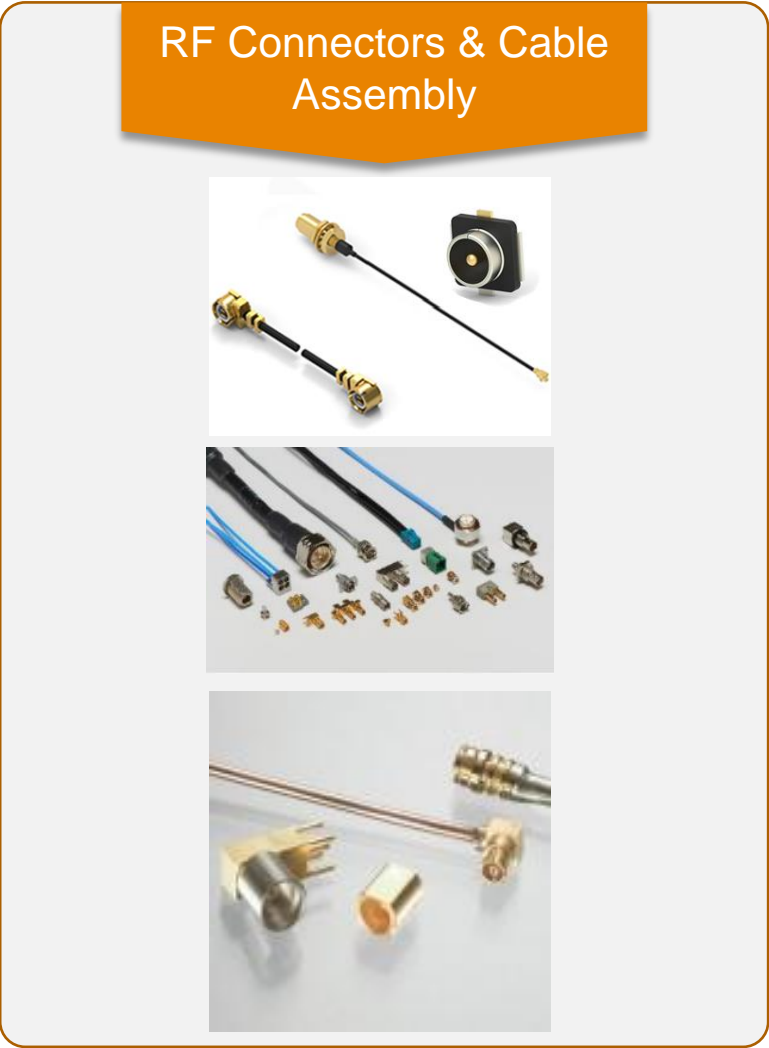


Product Portfolio: Antennas, RF Connectors & Accessory

Antennas



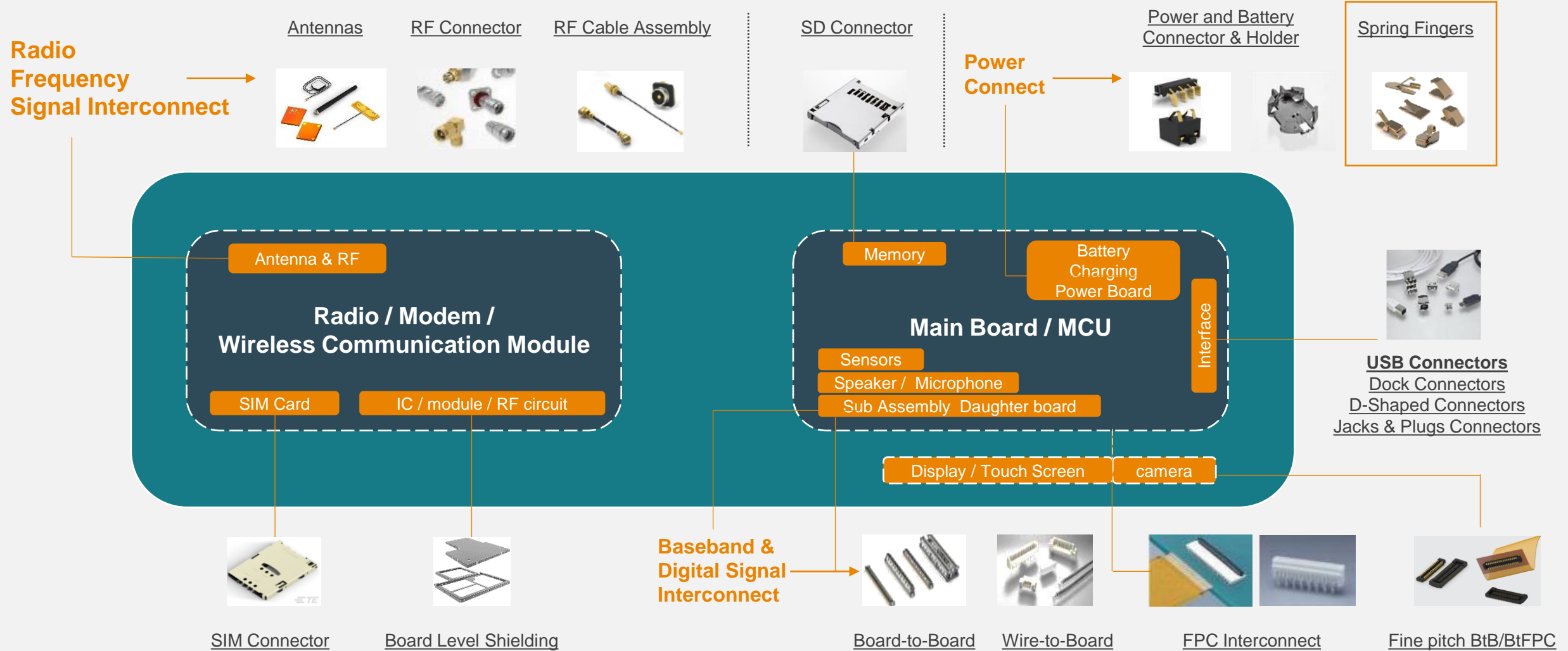
RF Connectors & Cable Assembly



Accessory



TE Connectivity IoT Product Ecosystem



Antennas

Surface Mount



Connector or
Terminal Mount



Internal
Adhesive
Mount



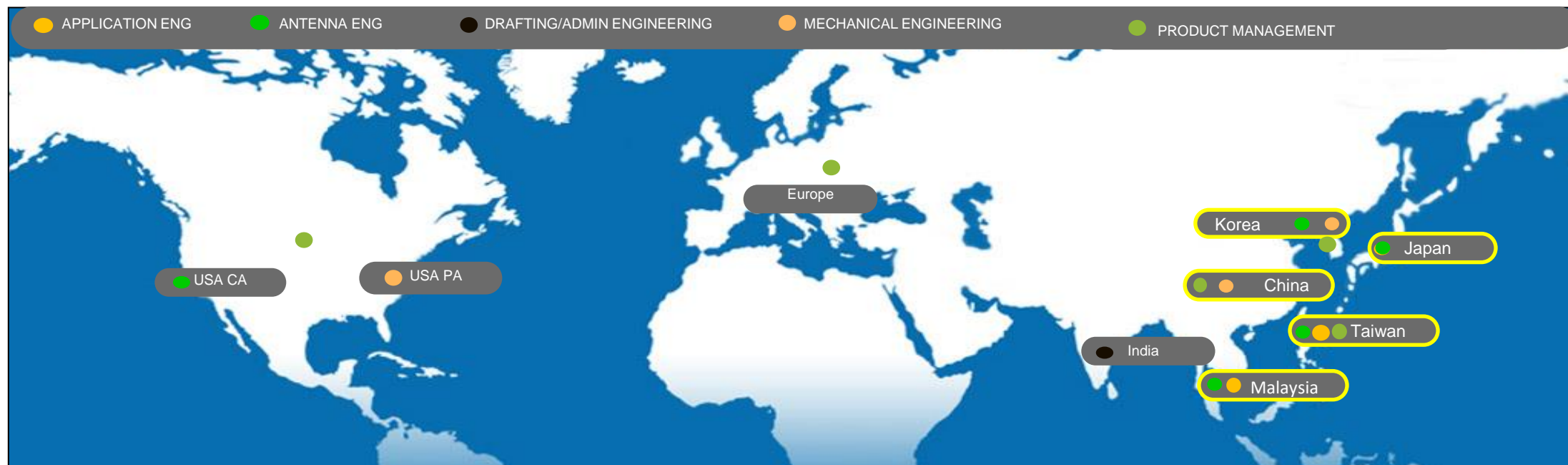
Panel Mount



Remote Mount



TE Advantages: Global Engineering And Sales Support



TE USA CA

- Application engineering
- Project Management

TE USA PA

- Application engineering
- Project Management

TE Korea

- Development engineering
- Project management
- Passive/Active 3D & LTE chamber
- LDS prototyping

TE India

- Mechanical drawings
- Engineering systems activities
- Part releases

TE Taiwan

- Development engineering
- Project management
- Passive Satimo chamber
- CST simulation modeling

TE China

- Development engineering
- Project management

TE Japan

- Development engineering
- Project Management
- Passive Satimo chamber
- Passive 2D chambers

TE Malaysia

- Antenna engineering
- Mechanical engineering

Antenna Engineering Capability

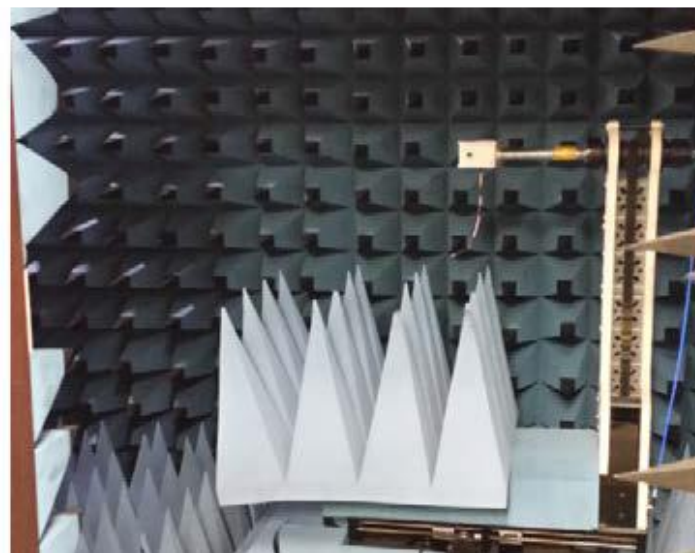
- S-parameters
- Antenna gain
- Antenna efficiency
- 3D/2D Radiation pattern
- Near-field & Far-field pattern
- OTA (TRP/TIS)
- Throughput

Satimo StarLab System
Frequency: 700MHz–6GHz



Taipei, Taiwan

A-Plus Tech 3DChamber
Frequency: 400MHz–8GHz



Suwon, South Korea

Satimo SG24 System
Frequency: 600MHz–6GHz



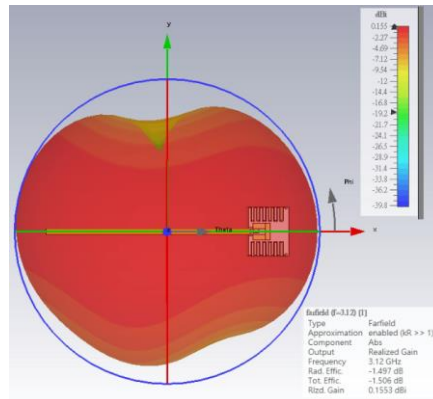
Penang, Malaysia

What Kind Of Antenna Support From TE?

- Customer project assessment
- Off-the-shelf antenna recommendation with sample support
- Antenna simulation if necessary
- Customer design review
- Active and passive Antenna performance test with customer device enclosure
- Custom antenna Solution

Antenna assessment

1. Project detail
2. Simulation
3. Antenna recommendation



Design Review

1. Antenna footprint
2. “ π ” Pi circuit matching
3. Antenna fine tune and optimization



Antenna test and custom solution

1. OTA chamber test
2. Passive and active test
3. Custom antenna design



Choosing An Antenna For Wireless IoT Devices

a. Identify what kind of wireless communication protocols (antenna frequency/band) are required.

											
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

others: _____

b. Determine an internal or an external antenna is required, by looking into device application environment.
(If customer device enclosure is metal which will block radio signals, external antennas should be considered)

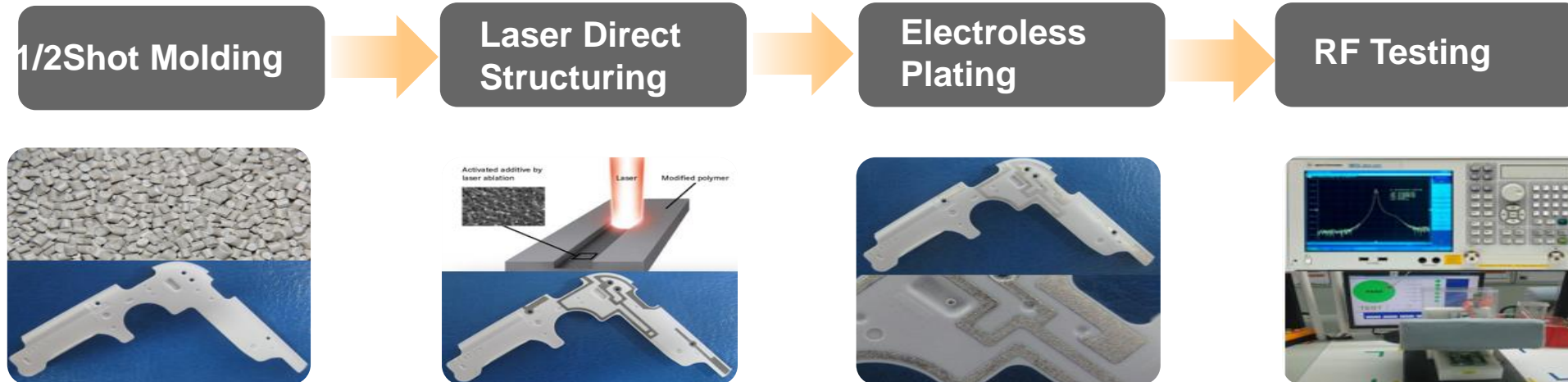
Internal	External	Remote	LDS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

c. What mounting type or connector are required for antennas integration
(For an internal antenna, typical coaxial cable with UMCC/u.FL/MHF/ connector is most commonly used.)

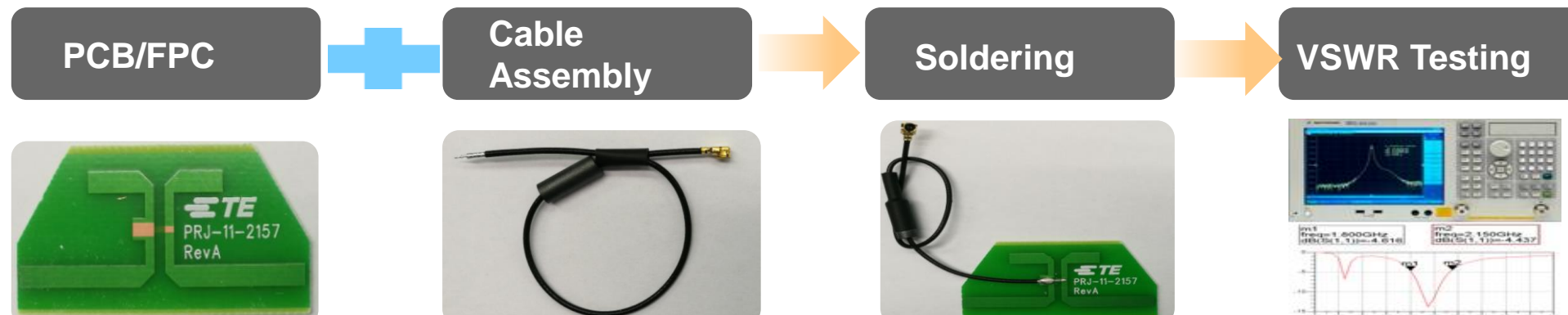
u.FL/MHF1	MHF4	MCX	MMCX	Others	Adhesive	SMT	Terminal	Screw	Panel	DIP	Others
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Antenna Manufacturing Process

- MID LDS Antenna



-
- Value Added Antenna



LDS Antenna Manufacturing Capability



• Molding

–97, 7~160-ton Machines
–7sets 2shot molding machines.

–In-house Mold Design/Conditioning Capability



• LDS

- Hi-precision laser structuring
- Faster trace change
- Fine line capability (0.15mm trace width as minimum)
- Capacity:
~180K pcs/Day

No non-LPKF machines are used in TE in-house LDS production



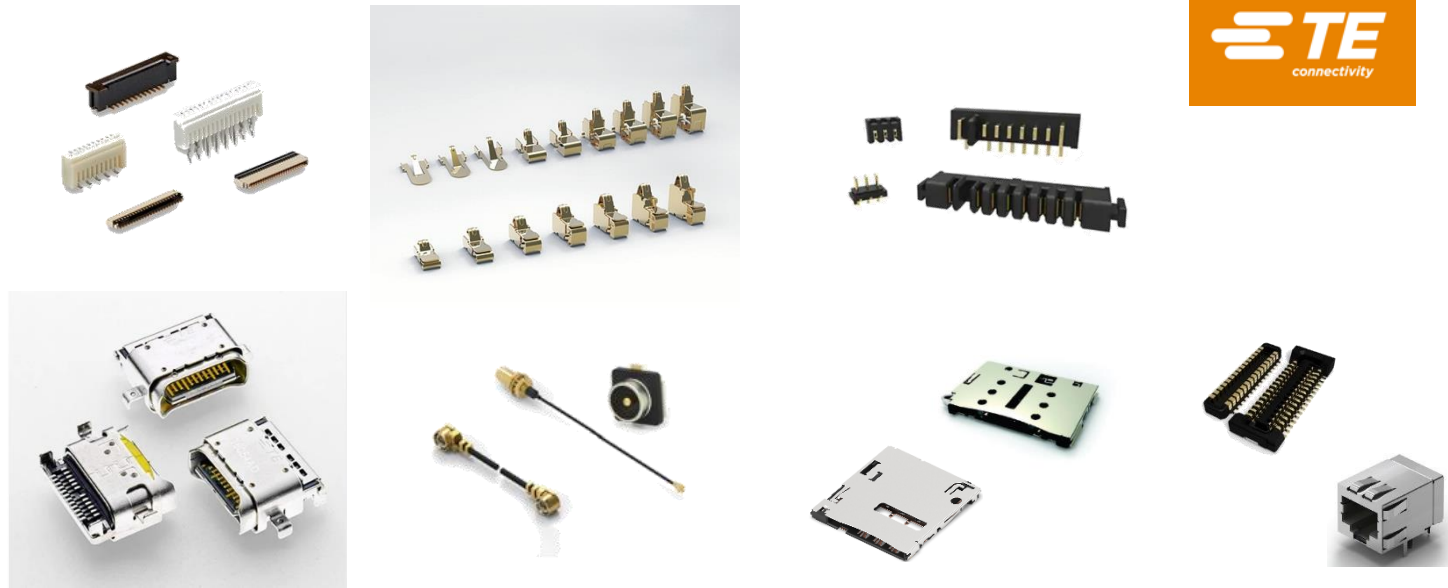
• Electroless Plating

- Mass production line built in 2011
 - Automatic Operation
 - Automatic Chemical Adding
 - Electroless plating of Copper, Nickel, Gold
 - **Capacity: 400kpcs/day**
- Sample-Making Line, on building
~1K pcs/Day



• RF & Assembly

- Vector network analyzer: 15sets
- 1Ghz~15Ghz test capability
- Capacity:
~180kpcs/day



Data & Power Connectors

Felisa Chuang

Richard Gong

Target Market Sectors & End Points – Data & Power



Phase I RF Con. & BA

Phase II Data & Power

Smart City	Industrial IoT	Telematics / Transportation	Smart Energy / Utilities	Retails & Smart Health
<ul style="list-style-type: none"> • Surveillance Camera • Environmental Sensor • Safety Security Devices • Indoor/Street Lighting • Parking & Waste Mgmt 	<ul style="list-style-type: none"> • Environment/ Agricultural Sensor • Industrial Gateway • Tracking Tag • Robots • Remote Control • Farming / Construction Tool 	<ul style="list-style-type: none"> • T-box • In-vehicle Toll • OBD • E-call / Insurance Device • Infotainment • Public Safety • Tracker 	<ul style="list-style-type: none"> • E/W/G-meters • EV Charging Station • Thermostat • Energy Monitor Unit • Smart Socket • Utility Box 	<ul style="list-style-type: none"> • POS Terminals • Digital Signage • ESL • Vending Machine / Kiosk • RFID Reader • Health Tracker • Diagnostic & Scanner

Phase I

Phase II

Product Family	Lead Product	Lead Product	Lead Product	Lead Product	Lead Product
RF Connector	<ul style="list-style-type: none"> • Micro-coax Receptacle & Cable Assembly 	<ul style="list-style-type: none"> • Micro-coax Receptacle & Cable Assembly 	<ul style="list-style-type: none"> • Micro-coax Receptacle & Cable Assembly • FAKR/MATE-AX Cable Assembly 	<ul style="list-style-type: none"> • Micro-coax Receptacle & Cable Assembly 	<ul style="list-style-type: none"> • Micro-coax Receptacle & Cable Assembly
Board Attached	<ul style="list-style-type: none"> • Spring Finger • SIM Connector • Fine Pitch BtB/BtFPC 	<ul style="list-style-type: none"> • Spring Finger • SIM Connector • Fine Pitch BtB/BtFPC • Battery/Power Conn. 	<ul style="list-style-type: none"> • Spring Finger • SIM Connector • Battery/Power Conn. 	<ul style="list-style-type: none"> • Spring Finger • SIM Connector • Fine Pitch BtB/BtFPC 	<ul style="list-style-type: none"> • Spring Finger • SIM Connector • Fine Pitch BtB/BtFPC
Data & Power	<ul style="list-style-type: none"> • RJ45 • FPC / Ribbon Conn 	<ul style="list-style-type: none"> • RJ45 • Champ Docking • FPC / Ribbon Conn 		<ul style="list-style-type: none"> • FPC / Ribbon Conn • Mini Spring Socket 	<ul style="list-style-type: none"> • Champ Connector • FPC / Ribbon Conn

- The Internet of Things (IoT) is a system of interconnected devices dedicated to performing a single or a set of functions, with the demand for wireless connectivity and remote operations steadily growing within the market as these technologies evolve. RF networking technology connects various devices embedded via software, electronics, sensors, and wireless chips, within a system. IoT plays a vital role in building smart communication environments like smart homes, smart transportation, smart healthcare, smart shopping, and many others
- Micro-coaxial products frequency upgraded from 6 GHz to 9 GHz



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Application – Micro-coaxial Products

Top 3 applications

- Smart medical
- Smart transportation-V2X
- Router-Enterprise



Smart Medical



Smart Transportation-V2X



Router- Enterprise

Others:



Smart city-
smart meter



Smart city-
security camera



Small cell



Wireless module



Smart building- security
and alarm control panel



Smart transportation
(in-vehicle/train)- router

Design WIN Story– Micro-coaxial Products



Application: Electric Vehicle Charge station
TE PN: 2337019-1/2032440-1(micro-coaxial)
2195889-1/ 2195899-2(antenna)
Micro-coaxial receptacle, cable assembly & antenna
EAU: 200Kpcs



Application: Small cell-5G
TE PN: 2016623-5/6/7
Micro-coaxial cable assembly
EAU: 150Kpcs



Application: Small cell
TE PN: 1909763-1
Micro-coaxial receptacle
EAU: 4Mpcs



Application: Gaming
TE PN: 2293526-1
Micro-coaxial receptacle
EAU: 52Mpcs



Application: Router
TE PN: 2118826-3/-4
Micro-coaxial cable assembly
EAU: 100Kpcs



Application: IOT
TE PN: 1909763-1/2337019-1/2334884-1
Micro-coaxial receptacle
EAU: 13Mpcs

Application – Spring Finger

Top 3 applications

- Wearable devices
- Bluetooth ear bud
- Fleet telematic/car tracker/GPS



Personal Health Device



Hearing Aid



Fleet Telematics/ Car tracker

Others:



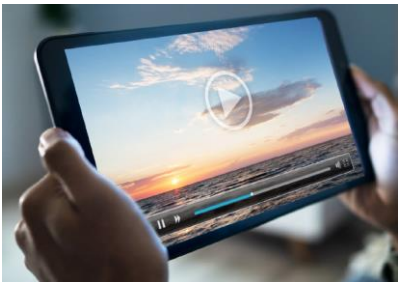
Smart transportation
(In-vehicle/train)- Router



Smart City-
Smart Meter



POS terminal

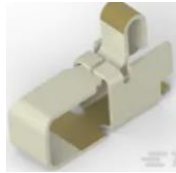


Tablet



Smart home device-
smart white goods.

Design WIN Story– Spring Finger



Application: Rugged phone
TE PN: 1746854-1
Spring finger: Pre-loaded
EAU: 2.2Mpcs



Application: Fleet Telematics
TE PN: 3-2199250-3
Spring finger: C type
EAU: 500Kpcs



Application: Display of E-Bike
TE PN: 2199249-3
Spring finger: C type
EAU: 800Kpcs



Application: Game console
TE PN: 2329497-4, 4-2199250-4, 1827625-3
Spring finger: Ultra small/ C Type / Pre-loaded
EAU: total 35Mpcs



Application: Wearable device(Smart watch)
TE PN: 2822541-1
Spring finger: Ultra small
EAU: 1.5Mpcs



Application: Bluetooth earbud/earphone
TE PN: 2329497-3
Spring finger: Ultra small
EAU: 7Mpcs

Application – SIM Card Connectors

Top 3 applications

- Fleet telematic/car tracker/GPS
- Wearable devices
- EV charging station



Fleet Telematics/ Car tracker



Wearable device



Smart transportation-
EV charging station

Others:



Smart transportation
(In-vehicle/train)- Router



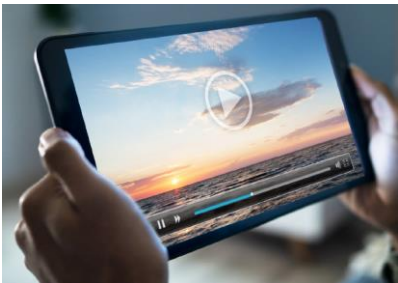
Smart City-
Smart Meter



Smart city-
security camera



POS terminal



Tablet

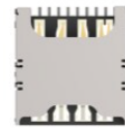


Smart building- Security
and alarm control panel

Design WIN Story– SIM Card Connectors



Application: Smart meter in the building
TE PN: 2822541-1
Micro sim connector/ push-push
EAU: 250Kpcs



Application: smart transportation- EV charging
TE PN: 2199337-5
Micro sim connector/ push-pull
EAU: 300Kpcs



Application: AGV (automated guided vehicle)
TE PN: 2174918-1
Mini sim connector/ push-push
EAU: 250Kpcs



Application: Smart door lock for sliding gate
TE PN: 2336582-1
Nano sim connector/ push-push
EAU: 15Kpcs

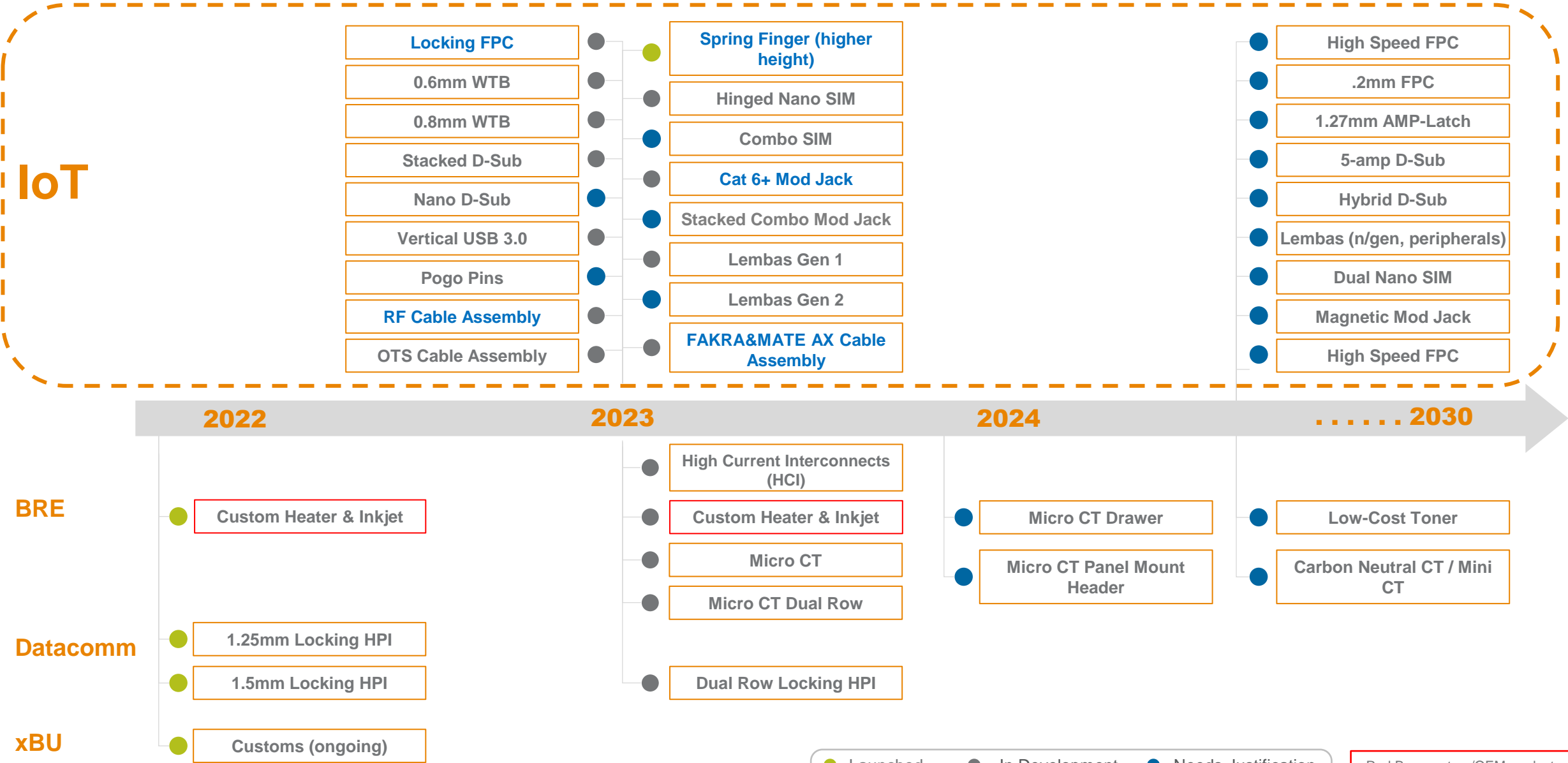


Application: Smart light pole / Bus station display control
TE PN: 2199337-5
Micro sim connector/ push-pull
EAU: 90Kpcs



Application: Wearable device(Smart watch)
TE PN: 2822541-1
Micro sim connector/ push-push type
EAU: 900Kpcs

FY23 Roadmap: CFP / WTB / BA Product Portfolio



New Launch – Higher Height Spring Finger

Part Number	Image	Part Description	Type
<u>2388202-2</u>		Spring Finger 3.8mm Pre-loaded Type	Pre-loaded
<u>2343297-2</u>		Spring Finger 4mm Box Type	Box
<u>440423-1</u>		Spring Finger 5mm C Type	C
<u>2339640-1</u>		Spring Finger 6mm Box Type	Box
<u>1734298-1</u>		Spring Finger 7mm C Type	C

Applications

- IoT SMART Home
- IoT SMART Security
- Point of Sales Systems
- Home Appliances
- Thermostats
- Industrial Control Panels
- Test and Measurement
- Automotive Infotainment



INTRODUCING Higher Height Spring Fingers

- Higher height options allow designers to easily meet distance/clearance requirements, enabling an easy and inexpensive method to connect multiple PCBs.
- High-end performance characteristics (operating 0.5A to 2A), providing a well-grounded connection, helping to prevent EMI noise and static.
- Improved auto-assembly efficiency and increased ease of installation. Does not require expensive or specialized application equipment.



[Visit Landing Page](#)

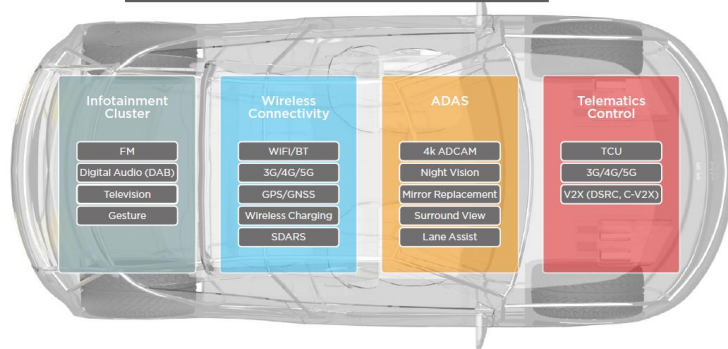
SALES TOOLS

- [Sales Battle Card](#): Brief yourself on the main selling points before visiting with a customer. **Note:** this document is for internal use only and should not be shared with customers.
- [Customer-Facing Presentation](#): Includes comprehensive product information, features, benefits, and part numbers.
- [Online eCatalog Listing](#): Customers can find part details, order samples, and download related specifications, drawings, and CVMs.
- [Product Webpage](#): Visit the higher height spring finger landing page to learn more and find resources for the entire product portfolio.
- Product Brochure ([English](#)) ([Chinese](#)): Download the higher height spring finger brochure.
- [Product Catalogue](#): Download the full catalogue of the spring finger product portfolio, including applications and use-cases.

NPI- Fakra/Mate-AX Cable Assembly Launch



Automotive



Smart City

- Surveillance Camera
- Environmental Sensor
- Safety Security Devices
- Indoor/Street Lighting
- Parking & Waste Mgmt

Industrial IoT

- Environment/ Agricultural Sensor
- Industrial Gateway
- Tracking Tag
- Robots
- Remote Control
- Farming / Construction Tool

Telematics / Transportation

- T-box
- In-vehicle Toll
- OBD
- E-call / Insurance Device
- Infotainment
- Public Safety
- Tracker

Promoting



Fakra



Mate-AX(Mini Fakra)

Existing Products

- Stamping and molding parts, auto assembly process-competitive cost
- Snap on assembly in customer site-lower cost
- Vibration, waterproof application



SMA



SMA cable assembly

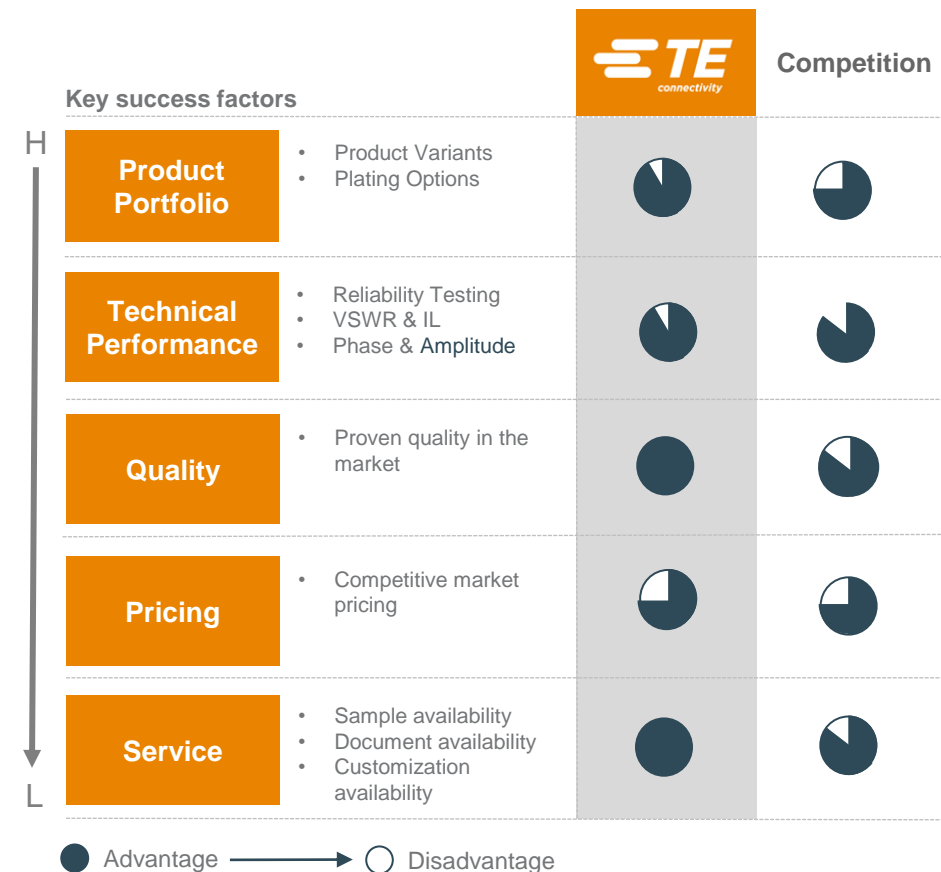
Existing Products

- Machining parts, manual assembly process-higher cost
- Screw on assembly in customer site-higher cost
- Can not in vibration application

- Strategy: Fakra/Mate-AX products from Automotive to target IOT application, DND launch Mar. 2023
- Key ask: VOC and customer mapping by Feb. 2023

How To Win From AP – Data & Power Connectors

- ✓ **Wide range of product portfolio**
 - Legacy & IoT NPI roadmap
- ✓ **Engineering support**
 - Local FAE , good technical performance, strong engineering & quality support
- ✓ **IoT Ecosystem**
 - Antenna + Connector & One stop shopping
- ✓ **Continued Product portfolio expansion**
 - Build/Borrow/Buy & cost comparison
 - Pricing & MOQ strategy for AP on legacy products



IoT Applications

Case Study
Brenda Chou
Roy Chen

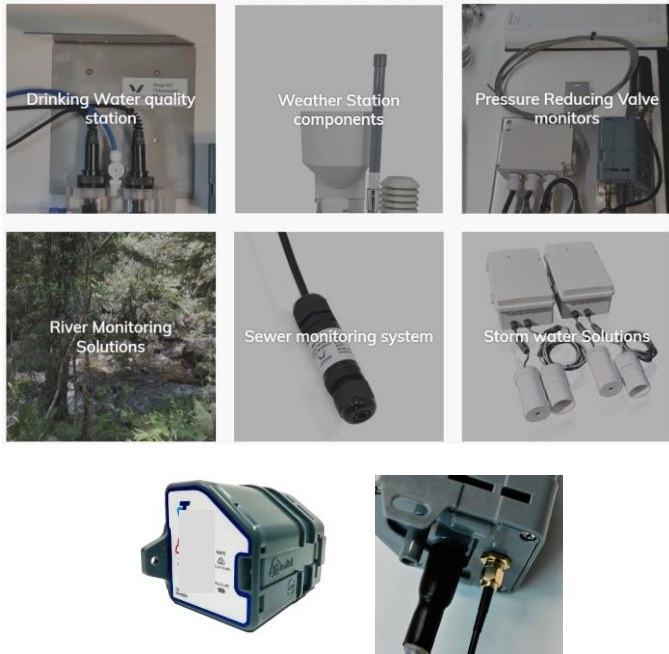
EVERY CONNECTION COUNTS



IoT Successful Story – Water Management / Sewer Monitoring System

Who they are

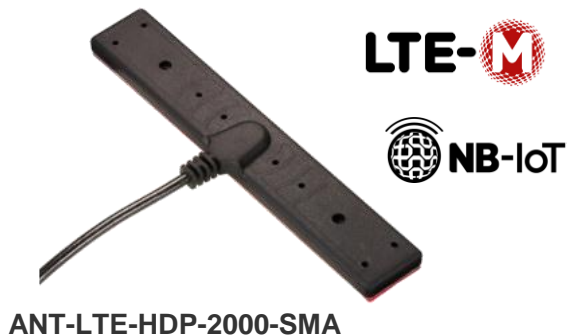
- A water and air management solution providers



Customer data log device

Challenge

- Monitor devices installed in a **harsh environment**
- **Stable data transferring** in certified networks
- Requirement: **IP67 sealed, easy to use, fast sample**



ANT-LTE-HDP-2000-SMA

Value Proposition & Reward

- Trusted brand – Quality & Performance
- On-time support – Sample and technical consultant
- Long-term order and New opportunities

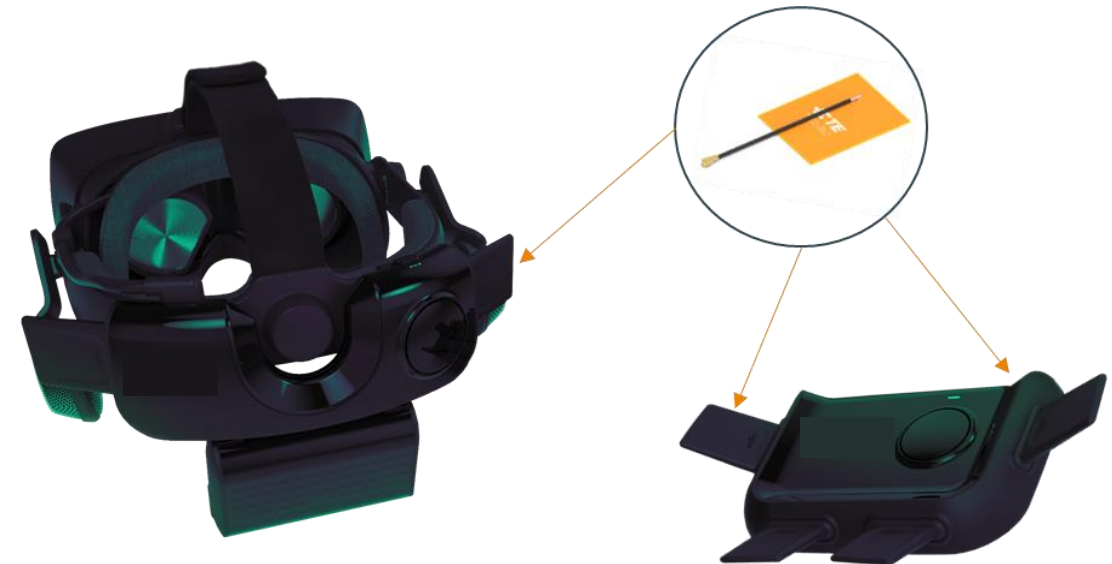


TE Antenna Portfolios Help IoT Customer Enable Wireless Connectivity In Harsh Environment

IoT Successful Story – VR Headset



TE WiFi 6E Antenna

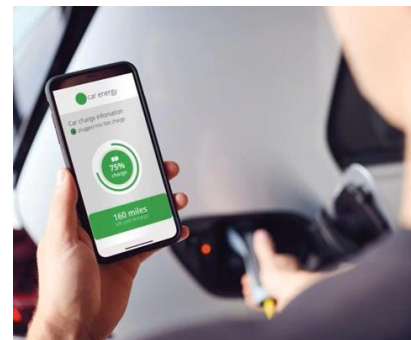


Winning Customer At Early Design Phase

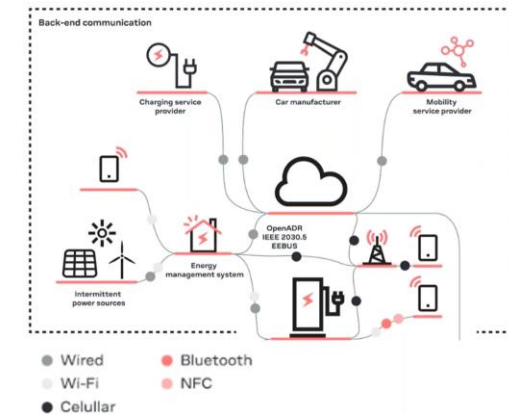
IoT Application – EV Charging

Wireless in EV Charge

- EVSE (*Electric Vehicle Supply Equipment*) market research predicts
 - 136 million EVs on the street in 2030
 - 36% CAGR for the EVSE market in the period 2021-2030
- EVSE charging units are deployed in an increasing numbers of private and public areas
 - Residential / Working areas
 - Commercial venues
 - Public venues
 - Public road infrastructure
- 58% of total installed based in 2024 expected to be networked with cellular or Wi-Fi
 - Local connectivity
 - E2E communication to cloud



Local Connectivity



E2E Communication to Cloud

IoT Application – EV Charging

Wireless in EV Charge

- Technologies
 - BT
 - Wi-Fi
 - Cellular
 - GNSS
 - D&P
- Diversity of charging point
 - Single CP node to cloud
 - Single CP node to gateway
 - Concentrator node to cloud
 - Multiple CP nodes to mesh
- Installation scenarios & use cases
 - Open air vs underground
 - Most are low throughput
 - Feature-rich display for value-added services
- Grade of requirement
 - Commercial
 - Industrial
 - Automotive



Cellular



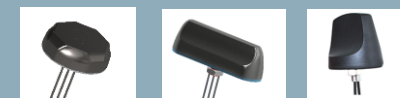
Wi-Fi / BT



GNSS



Combo



D&P



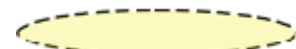
IoT Application – Wireless in Railway System

Nowadays railway systems have important demand of communications with very strict requirements of quality, capacity and reliability.

- Train-to-infrastructure



- Inter-wagon



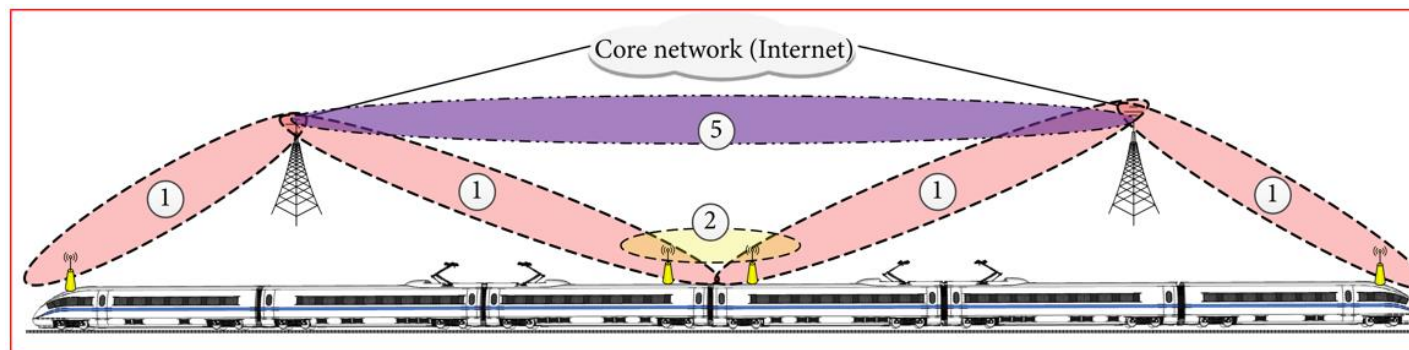
- Intra-wagon



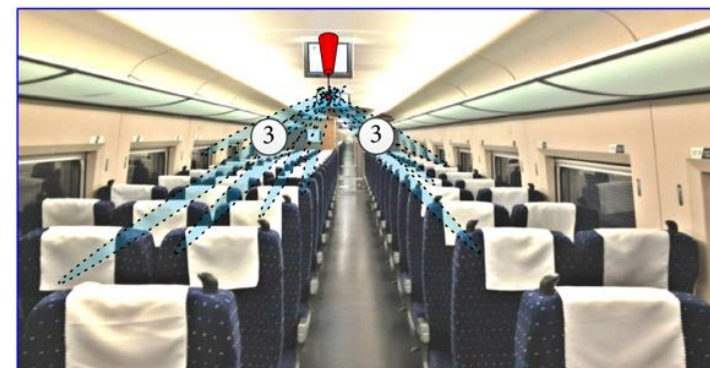
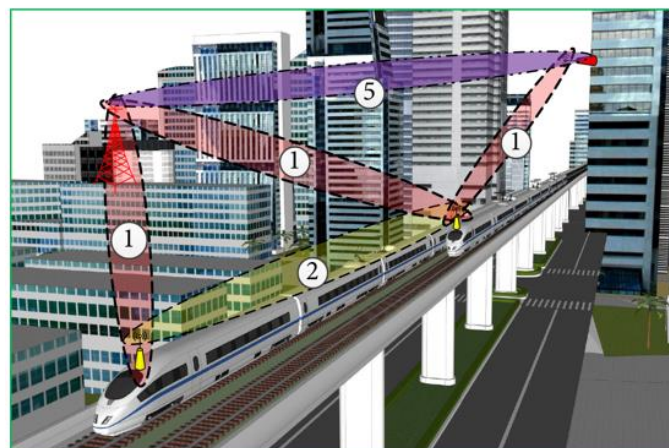
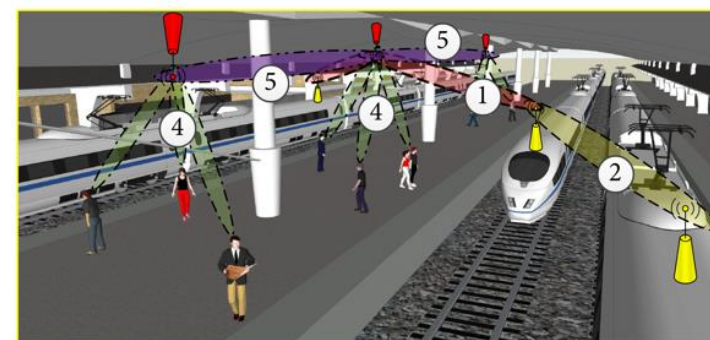
- Inside station



- Infrastructure-to-infrastructure



- **Critical Communication**
- **Noncritical Communication**



IoT Application – Railway Cargo Tracking

- Application - Cargo status remote monitoring

- Temperature
- Humidity
- Door open/close (anti-theft)

- Technologies

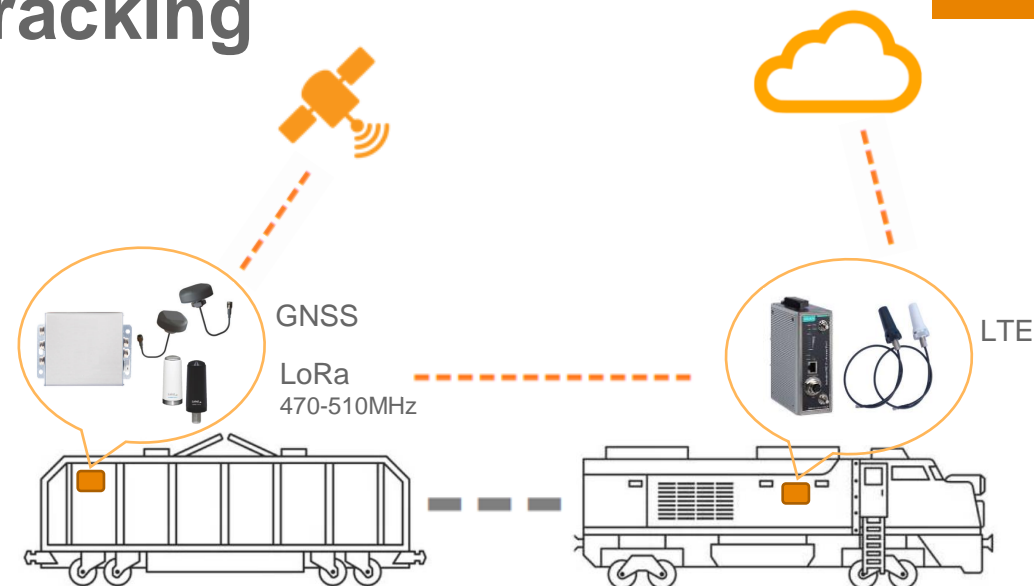
- LTE – HCF69273
- GNSS – GNS1559MPF
- LoRa – UTRA4502S3

- Selling points

- Compact design with high performance
- Full MDVT report to ensure the reliability

- Business prospects


- Module users / System integrators



China-Europe freight train has completed more than 10,000 trips as of 2020 November – by Global Times


IoT Successful Story – More Wins.....

Smart City




FPC Antenna
Parking System

Transportation



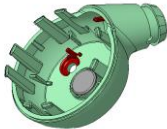
4G/GNSS
Antenna
Container
Tracking

IIoT



Autonomous
Mining Equip
MIMO
Antenna

Smart Health



LDS Antenna
Hearing Aid

Smart City



Windmills ADLS

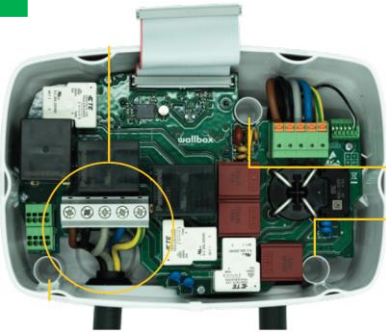


GNSS
Antenna

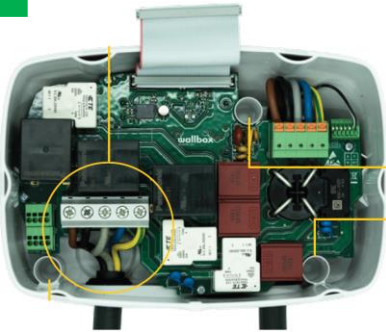


Phantom 4G
LTE Antenna

Smart Energy



Ribbon
& IO &
Power



Power Management
Thermostat

IIoT



Disk Puck
IP67
Antenna



Demolition
Robot

Smart Health



Spring
Fingers



Health
Monitoring
Device

IoT Marketing Plan - APAC

Aquarius Gu

EVERY CONNECTION COUNTS

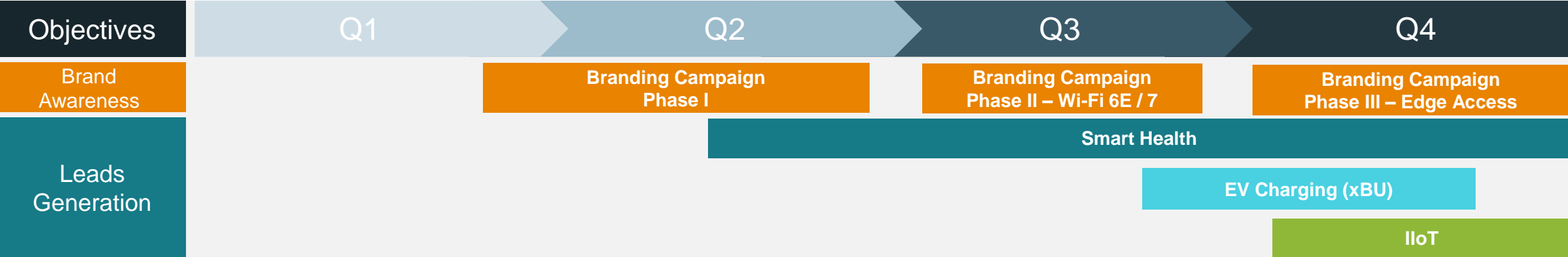


FY23 IoT Marketing Plan - APAC

Global Framework with APAC differentiation: **APAC IoT Market Intelligence | Localized Content | Regional GTM**

	Findability	Growth Initiatives	Opportunity Management	Portfolio Marketing
Deliverable	1. PC site& Mobile-end Findability 2. Content 3. Brand Awareness 4. Search & Social Expansion	1. Market Campaigns	1. Process in Place for Direct and Channel	1. IoT Portfolio Solutions Campaign 2. NPI Launch IoT Solutions
Priority	1.1 IoT Pages Optimization 1.2 Antenna Selector Promotions 1.3 Mobile, WeChat content 2.1 Localized Content 3.1 Branding Campaign 4.1 IoT social & video ads 4.2 Antenna search ads	1.1 Smart Health (1H) 1.2 XBU - EV Charging (Q3) 1.3 IIoT	1.1 Leads Process Optimization Implementation	1.1 Channel IoT Focused Sales Training 2.1 IoT NPI GTM (On-going)
KPI	<ul style="list-style-type: none"> #Visits & Engagement CTR 	<ul style="list-style-type: none"> \$POS /#CC (Net New / Dormant) \$Oppty Pipeline 	<ul style="list-style-type: none"> Oppty– Won % Conversion \$Won 	<ul style="list-style-type: none"> \$POP, \$POS
Enabler	Channel Partnership			
	Market Intelligence & Digital Insights			
	X-BU Collaboration			

Campaign Roadmap in APAC (Living Document)



Branding Campaign

Phase I

General promotion

Launch on 12/8

- Official Accounts
- Paid Social
- SEM/SEO
- EDM





视频号



Phase 2

Product Focus

Launch on Q3

- Official Accounts
- Paid Social
- SEM/SEO
- Media Pitch
- Media Article
- EDM

Phase 3

Product Focus

Launch on Q4

IOTE - Channel Partner Collaboration

- Joint Exhibition
- Event Media Article

Smart Health

Launch on early Feb

Owned Channels

- Official Accounts
- Paid Social
- SEM
- Media Pitch
- Media Article
- EDM

Media Collaboration

- Vertical Media Ads
- White Paper Download
- Media Webinar

Media Webinar - Channel Partner Collaboration

- Media Article

EV Charging

Launch on late Q3

- Official Accounts
- SEM
- Media Pitch
- Media Article
- EDM

Available Resources

IoT Hub Page

[IoT Hub Page](#)

Case Studies

- [Exelonix Case Study](#)
- [B810 Case Study](#)
- [Lanthan Case Study](#)

Solution Guide

- [Smart Metering](#)
- [Smart Surveillance](#)
- [Fleet Telematics](#)

Virtual Sample Kit

- [Smart health IoT virtual sample kit \(te.com\)](#)

Infographic

- [IoT Brand Awareness](#)
- [Smart Health](#)
- [Smart Building](#)
- [Smart Tracking](#)

White Paper

- [Miniaturization](#)
- [Smart Health](#)

On-Demand Webinars

- [Webinar Center IoT | TE Connectivity](#)

Upcoming Assets

- Updated IoT Antenna Selection Guide
(Incorporate Laird External Antennas + Linx)



External Antenna Sample Box



IoT Portfolios Stocking Program



TE IoT Stock Packaging

- 60+ Antenna SKUs in phase1
- IoT RF/SIM Card/Data & Power Connector product series
- ~US\$56k (special price offer!)

	P/N	Application/Type	Mounting
Cellular	2195889-1	5G	Whip
	2195889-2	5G	Whip
	2195890-1	4G	Whip
	2195940-1	4G	Whip
	2195753-1	5G	PCB chip
	2195784-1	5G	PCB chip
	2195944-1	4G	PCB chip
	2195945-2	5G	FPC with cable
	234492-1	4G	PCB with cable
	2372105-1	4G	PCB with cable
ISM/LPWA	2347234-1	4G	FPC with cable
	2372112-1	4G	FPC with cable
	2195892-1	ISM 433	Whip
	2195895-1	NB-IoT/LRaF/Sig	FPC with cable
	2195896-1	NB-IoT/LRaF/Sig	FPC with cable
	2195991-1	NB-IoT/LRaF/Sig	PCB chip
	2195999-1	WiFi/BT 2.4-2.5	Whip
	2195923-1	WiFi 4E	Whip
	2195923-2	WiFi 4E	Whip
	2195924-1	WiFi 4E	Whip
WiFi/BT/ZigBee	2195924-2	WiFi 4E	Whip
	2195924-3	WiFi 4E	Whip
	2195924-4	WiFi 4E	Whip
	2195924-5	WiFi 4E	Whip
	2195924-6	WiFi 4E	Whip
	2195924-7	WiFi 4E	Whip
	2195924-8	WiFi 4E	Whip
	2195924-9	WiFi 4E	Whip
	2195924-10	WiFi 4E	Whip
	2195924-11	WiFi 4E	Whip
GNSS	2195924-12	WiFi 4E	Whip
	2195924-13	WiFi 4E	Whip
	2195924-14	WiFi 4E	Whip
	2195924-15	WiFi 4E	Whip
	2195924-16	WiFi 4E	Whip
	2195924-17	WiFi 4E	Whip
	2195924-18	WiFi 4E	Whip
	2195924-19	WiFi 4E	Whip
	2195924-20	WiFi 4E	Whip
	2195924-21	WiFi 4E	Whip
Cellular	2195924-22	WiFi 4E	Whip
	2195924-23	WiFi 4E	Whip
	2195924-24	WiFi 4E	Whip
	2195924-25	WiFi 4E	Whip
	2195924-26	WiFi 4E	Whip
	2195924-27	WiFi 4E	Whip
	2195924-28	WiFi 4E	Whip
	2195924-29	WiFi 4E	Whip
	2195924-30	WiFi 4E	Whip
	2195924-31	WiFi 4E	Whip
Leird	2195924-32	WiFi 4E	Whip
	2195924-33	WiFi 4E	Whip
	2195924-34	WiFi 4E	Whip
	2195924-35	WiFi 4E	Whip
	2195924-36	WiFi 4E	Whip
	2195924-37	WiFi 4E	Whip
	2195924-38	WiFi 4E	Whip
	2195924-39	WiFi 4E	Whip
	2195924-40	WiFi 4E	Whip
	2195924-41	WiFi 4E	Whip

Microsoft Excel
Worksheet

GTM Advantage

- No.1 branding of IoT connectivity components
- Full coverage IoT wireless communication protocols
- Most popular antenna and connector types for IoT devices
- Large varieties of antenna form factors – internal & external
- One stop shop – RF, Data & Power connection
- Priority support by TE IoT team

Minimum Investment To Own TE IoT Portfolios In One Bag

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24x7 Live Chat



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Thank you!

EVERY CONNECTION COUNTS