



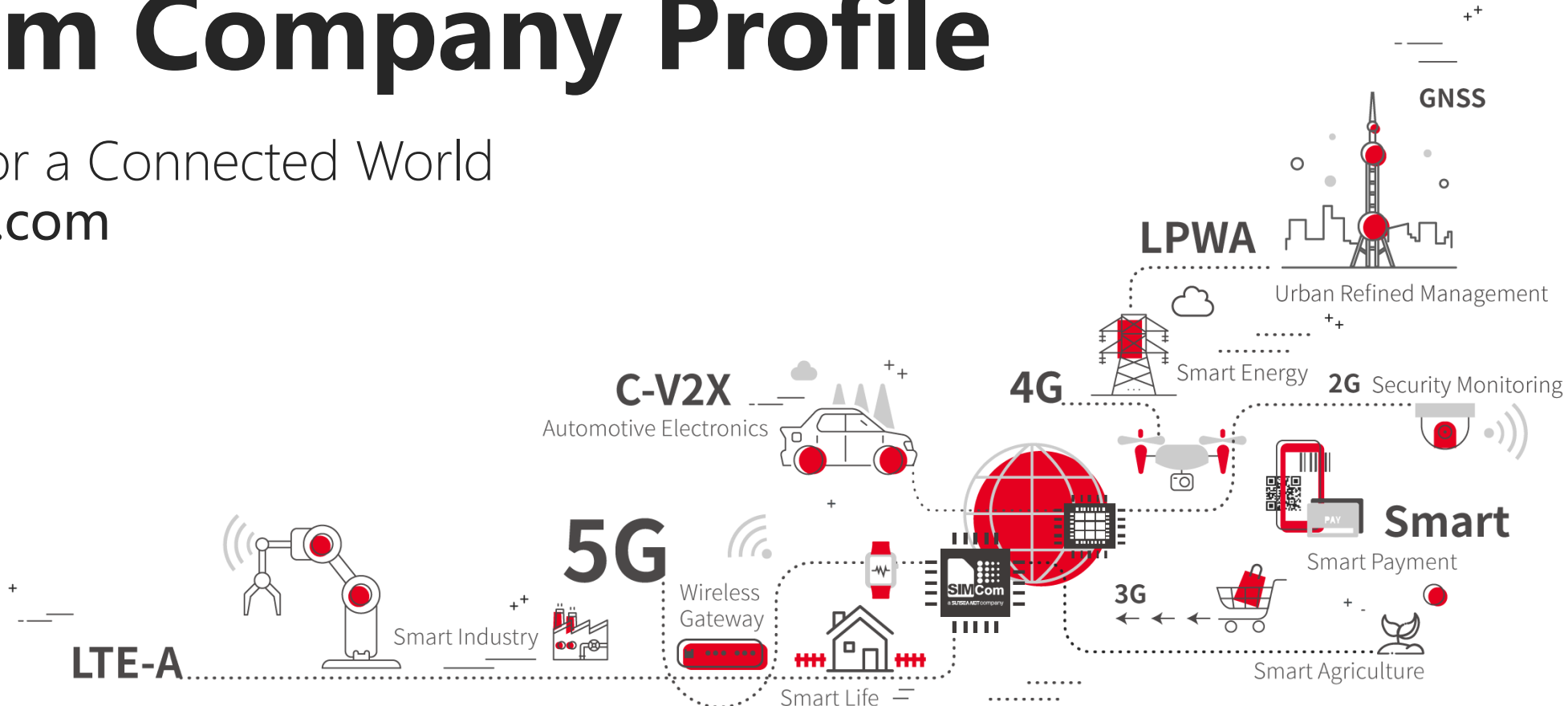
a **SUNSEA** AIOT company

Version: 2020-2

SIMCom Company Profile

IoT Modules for a Connected World
www.simcom.com

SUNSEA AIOT
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by SIMCom Wireless Solutions



CONTENTS



Company Profile

- Company Overview
- Key Milestones
- Global & NA Footprint
 - Key Partners
 - SIMCom R&D



Quality management system

- Product Quality Control
- R&D Quality Control



Product Introduction

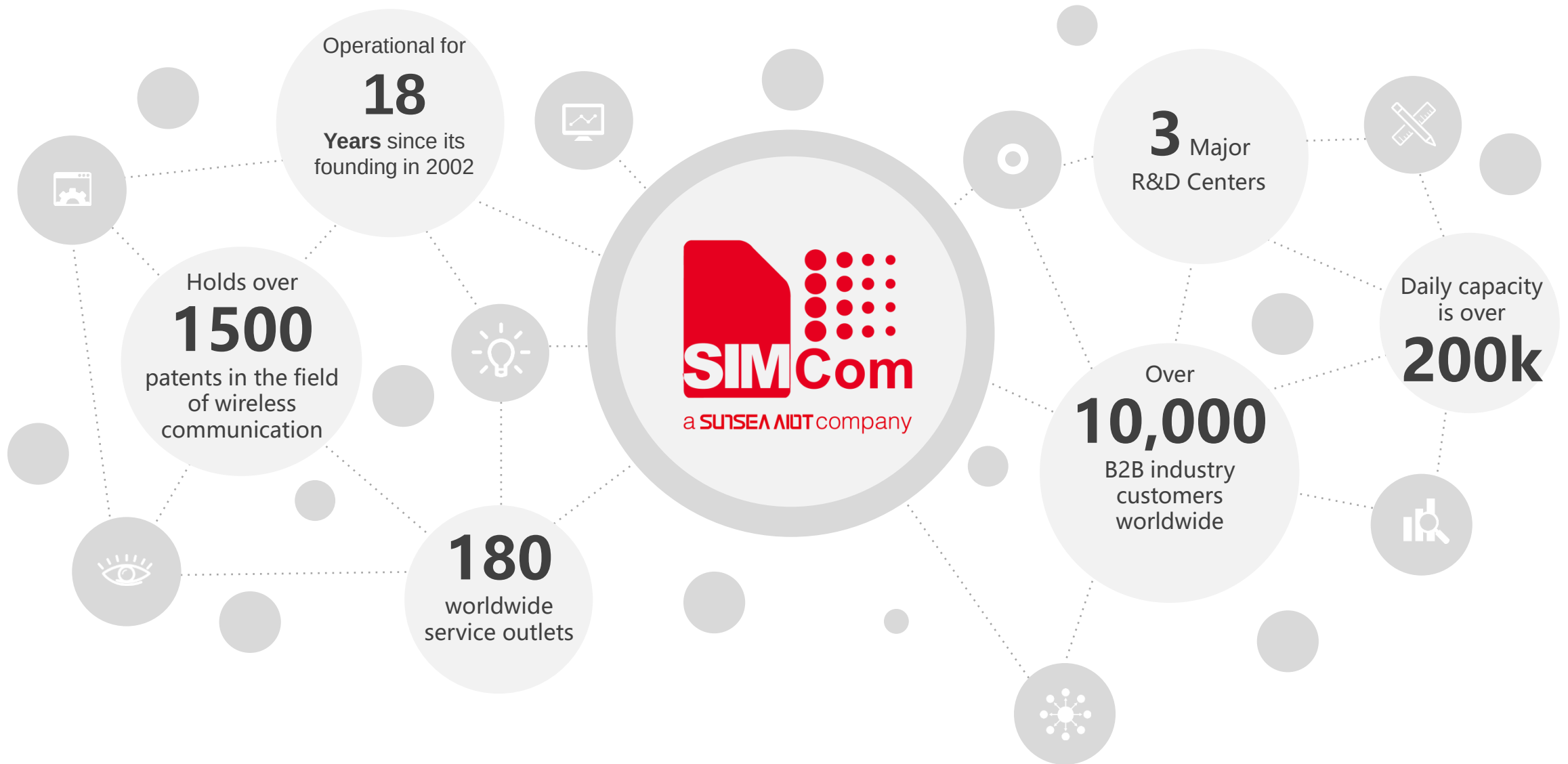
- LPWA
- LTE
- LTE-A
- Smart Modules
- 5G Solutions
- GNSS



Industry Applications

- Automotive Electronics
- Smart Industry

SIMCom is a world leading M2M wireless modules and solutions supplier, with hundreds of success stories from around the world.



SIMCom's Key Highlights



Establishment of the company

- ◆ Launch of the first module - ITM100

2002

Market share ranked No.1 in Asia

- ◆ Launch of the self-designed GSM/GPRS modules - SIM100 series
- ◆ Mass entry into the overseas markets such as India and East Europe
- ◆ First Chinese company in M2M100 (now called CW100) with first 10-million module shipment in 2008

2003-2008

Climbed to No.2 in global shipment

- ◆ SIM5215 module won the best 3G narrow-band module grand prize awarded by GSMA
- ◆ SIMCom shortlisted for AT&T module recommendations
- ◆ Launch of the LGA-packaged module series

2009-2014

Ranked No.1 again in global shipment

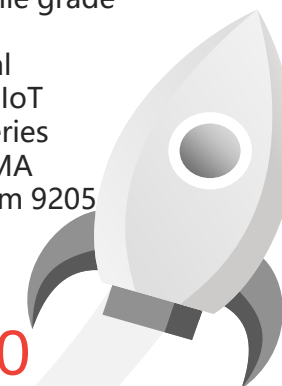
- ◆ Launch of the first LTE-compatible module- SIM7100 series
- ◆ SIMCom's LTE module (SIM7100A) has passed AT&T certification test
- ◆ Launch of the first LTE CAT1 module- SIM7500 series
- ◆ Launch of the SIM7000 series to support LTE CAT-M (eMTC) /NB IoT/EGPRS tri-mode module

2015-2018

SUNSEA acquisition

- ◆ Launch of our first C-V2X solution -SIM8100
- ◆ Establishment of Chongqing R&D Center
- ◆ Launch of automobile grade module SIM7800E
- ◆ Launch of the global minimum-sized NB IoT module SIM7020 series
- ◆ Full member of GSMA
- ◆ Launch of Qualcomm 9205 LPWA Solutions

2019- 2020



SIMCom's Parent Company



SUNSEA AIOT

- SUNSEA AIoT Technology Co. Ltd.
- Publicly traded Shenzhen Stock Exchange
- Over \$650M USD Revenue in 2019
- 2900+ employees
- R&D Team in excess of 700 employees



Various SUNSEA AIOT Holdings

100%



Modules

100%



Modules

20%



Cloud

16%



Modules

SIMCOM
a SUNSEA MDT company

The figure consists of three separate charts, each representing a different market share report:

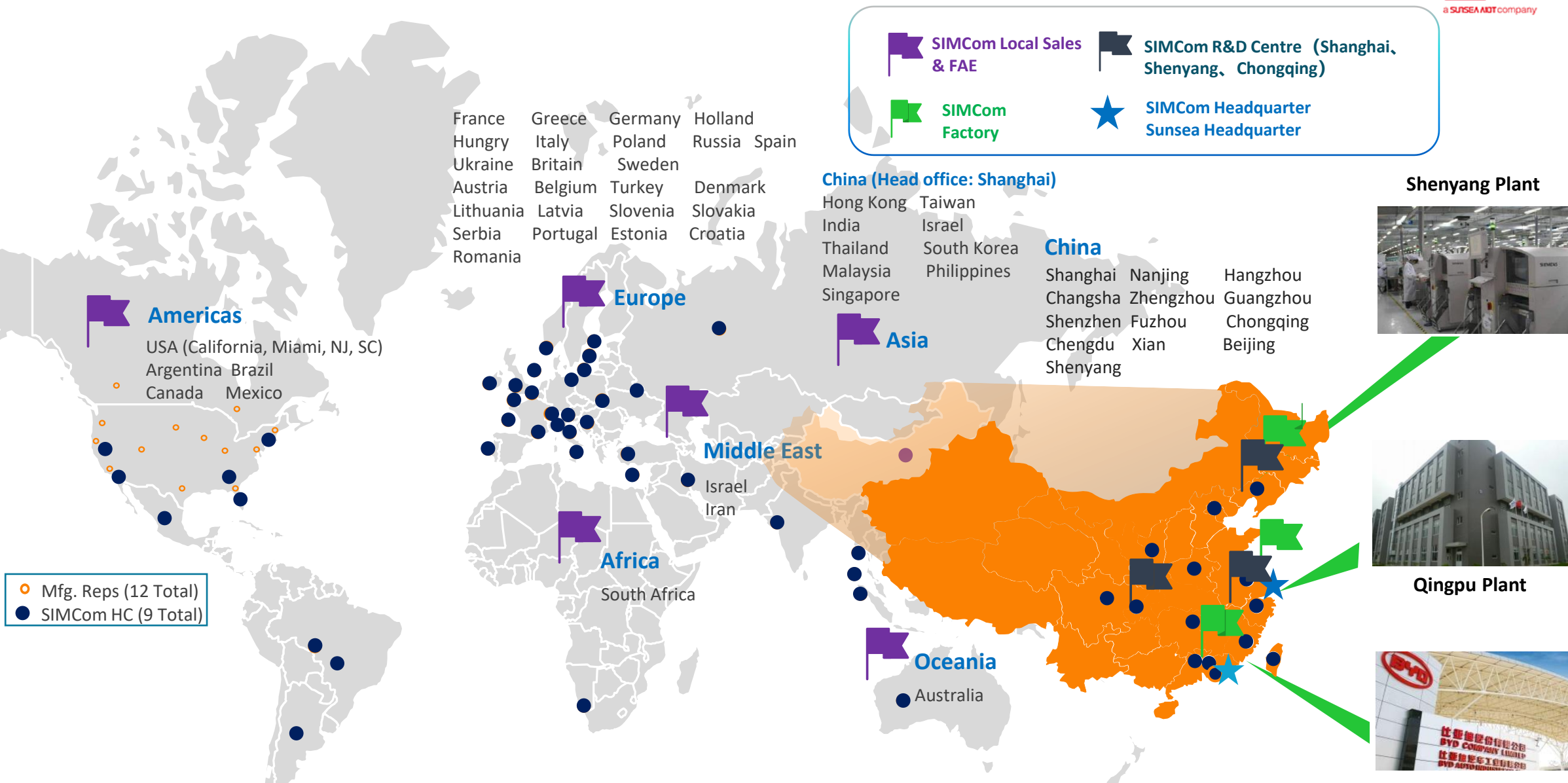
- ABIresearch®:** A pie chart titled "ABI M2M Market Share Report 2018". The data is as follows:

Company	Market Share (%)
SIMCom	25.7%
Quectel	19.9%
Cinterion [Gemalto]	11.9%
Telit	10.3%
Sierra Wireless	10.3%
Fibocom	5.5%
Novosys	4.8%
ZTE	2.8%
Others	2.0%
- STRATEGY ANALYTICS:** A chart titled "SA IoT Module Mkt Shares Report 2005-17". The subtitle reads: "Strategy Analytics: SIMCom No.1 Cellular IoT Module Vendor in 2017,...". The chart is a scatter plot showing market share over time, with SIMCom consistently at the top.
- Counterpoint:** A donut chart titled "Counterpoint Research 08JAN19". The data is as follows:

Company	Market Share (%)
SUNSEA	15%
Others	10%
Sierra Wireless	12%
Telit	9%
Gemalto	9%
Sierra Wireless	12%

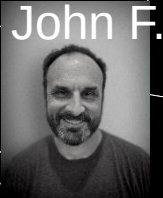
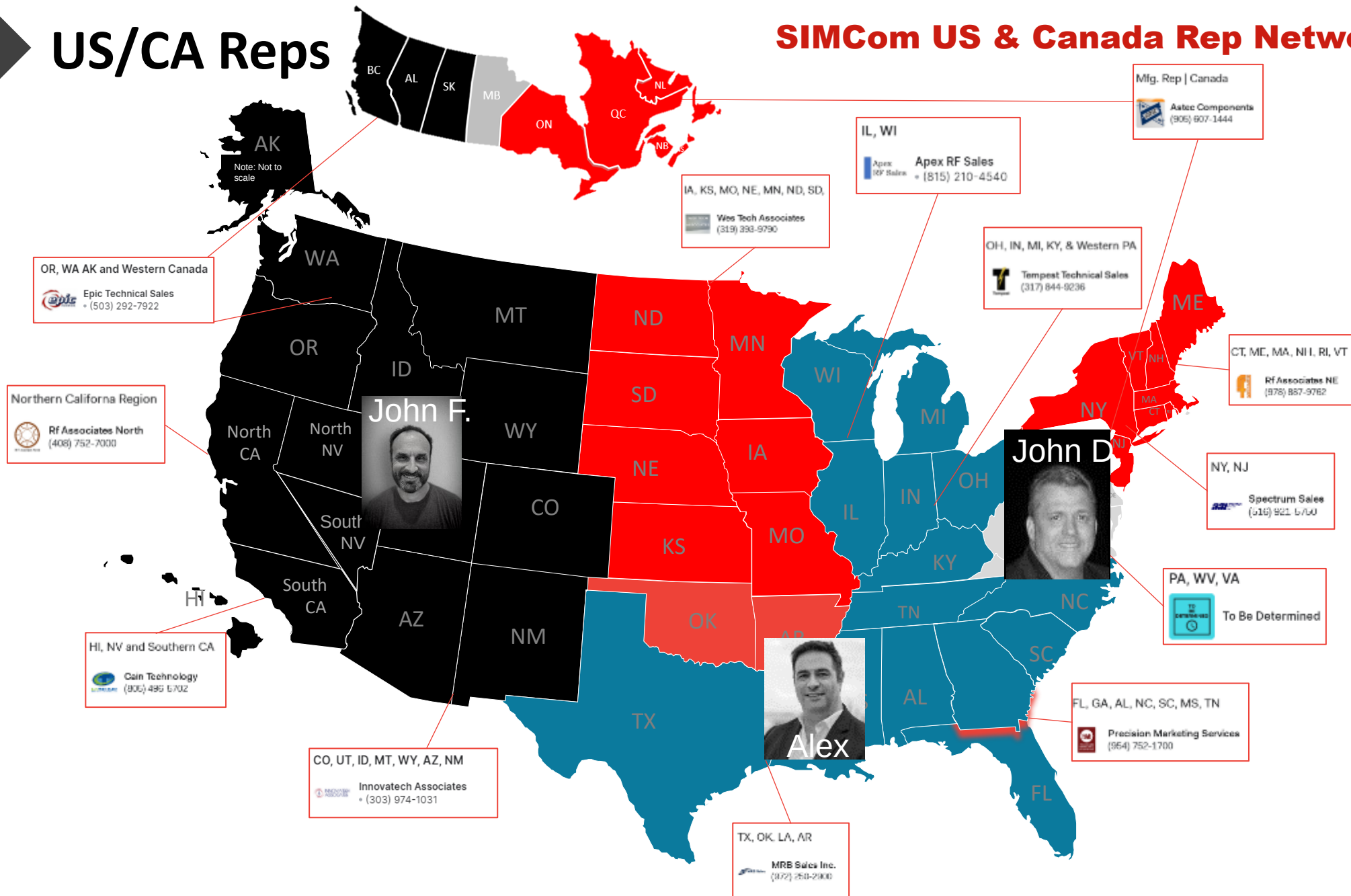
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Global Presence



US/CA Reps

SIMCom US & Canada Rep Network



John F.



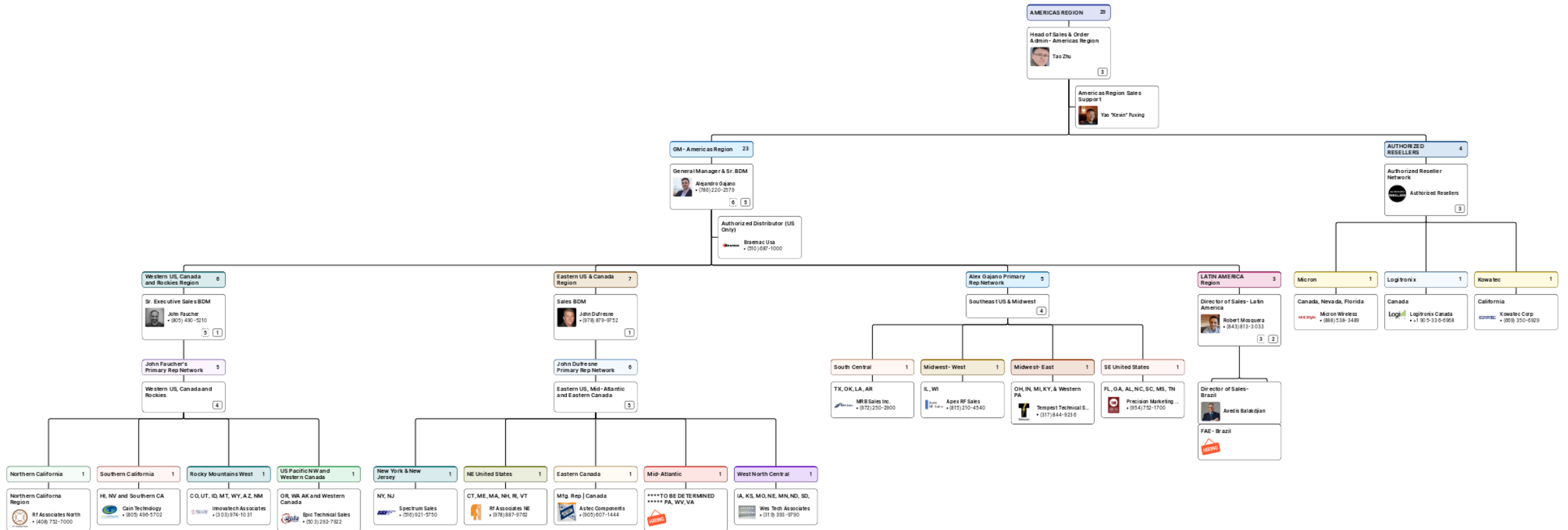
John D.



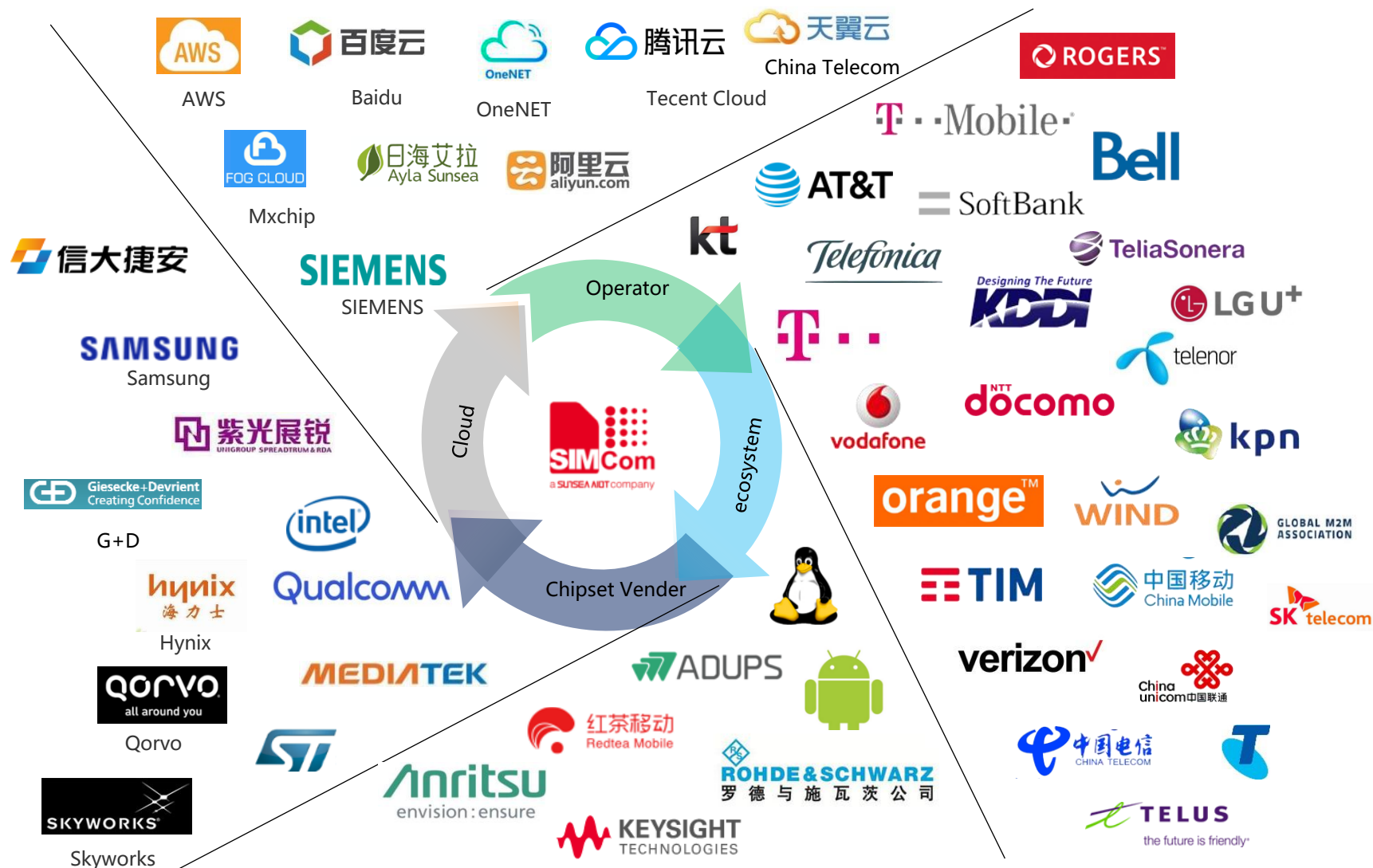
Alex

Alex Gajano	
PMI	
MRB	
Apex	
Tempest	
John Dufresne	
Astec	
RF. Northeast	
Spectrum	
WES Tech	
John Faucher	
Cain	
RF. Associates N	
Epic Sales (Pac. NW)	
Epic Sales (W. Canada)	
Innovatech	

Americas Team Org Structure



Go-to-Market and Ecosystem Partners



Global Certification Experience

A total of **334**

certifications of SIMCom products were completed in 2019. Rich certification experience helps customers expand their sales area, and lay solid foundations for global marketing.

While SIMCom does not directly offer certification services, we help our customers leverage proven & tested providers in the ecosystem.

 IC	 CE	 NCC	 FCC	 CCC
 JATE	 CTA	 RoHS	 A-TICK	 REACH
 ATEX	 GCF	 ICASA	 CE-RED	 TA
 FTA	 PTCRB	 Anatel	 IMDA	 RCM

Global Carrier Certification Experience



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Quality management system

- Product Quality Control
- R&D Quality Control

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Product Introduction

- LPWA
- LTE
- LTE-A
- Smart Modules
- 5G Solutions
- GNSS



Industry Applications

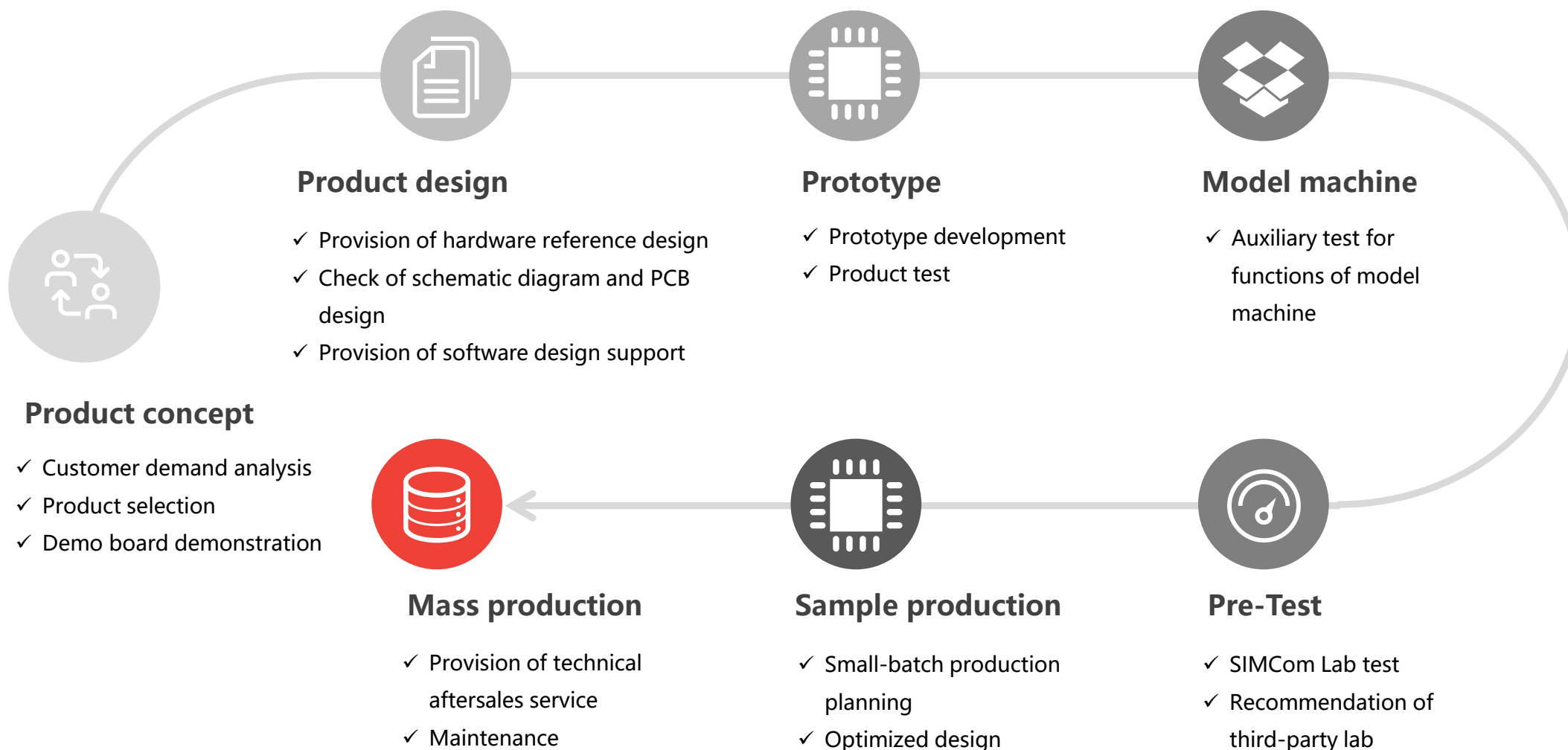
- Automotive Electronics
 - Smart Industry

•

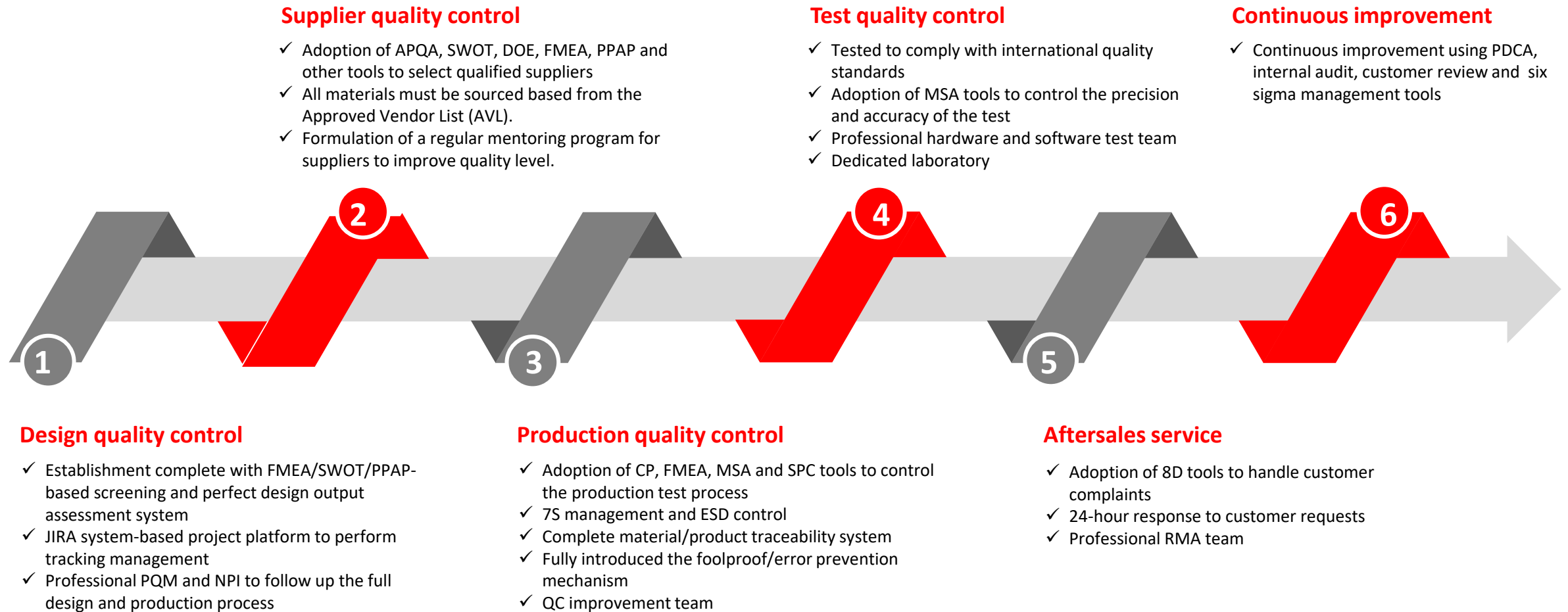
Quality at every Step



Quality Control at Every Step



Quality Control Management



Test Lab Environment



← 2G/3G/4G/NB-IoT/eMTC test equipment
→ Extreme high and low temperature RF test equipment
↓



← Dust tester
GNSS test system ↓



↖ Hot and cold impact testing chamber
↖ Environment test room
←



↗ Roller tester
← NB IoT test equipment
High-end audio test system →



Quality in Supply Chain & Production

- **Multiple qualified factories and automatic production lines**
 - Qualified factories includes Chenxing@Shanghai , Chenxing@Shenyang, BYD @Shenzhen
 - Innovative Auto lines dramatically shrink back-end cycle times
- **Business Continuity Management process**
 - Monitor potential losses ,develop risk-mitigation process
 - Continuous review of internal/external partners & suppliers
- **First-class quality**
 - Strict quality control system for high-quality products

QingPu



BYD
Shenzhen



Shenyang



Multiple manufacturing partners mean assured supply and help SIMCom support its delivery and lead-time commitments

Factories

- Chenxing@Shanghai
- Chenxing@Shenyang
- BYD@Shenzhen

Production Capacity

- Professional factory team
- Advanced SMT machine
- Daily production capacity >200K

Production System

- | | |
|-----------------------------|--------------------|
| - BYD | - ChengXing |
| - ISO9001,ISO14001,ISO27001 | - ISO9001,ISO14001 |
| - OHSAS18001 | - OHSAS18001 |
| - TS 16949 | - TS 16949 |
| - QC0800000,TL9000 | |
| - ESD2020 | |

SIMCom manufacturing strategy assures your supply with on-time delivery

CONTENTS



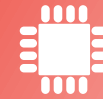
Company Profile

- Global Sales Network
 - Partners and certification
-



Quality management system

- Product Quality Control
- R&D Quality Control
-



Product Introduction

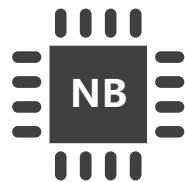
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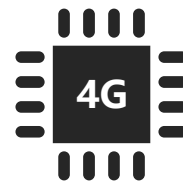
Industry Applications

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 - Smart Industry
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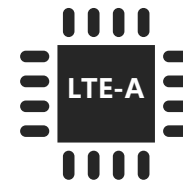
Product Catalog



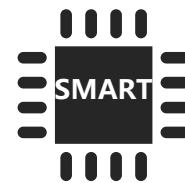
LPWA
MODULE



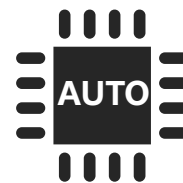
LTE
MODULE



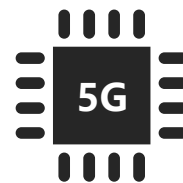
LTE-A
MODULE



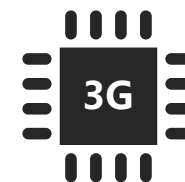
SMART
MODULE



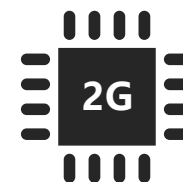
AUTOMOTIVE
MODULE



5G
MODULE



UMTS/ HSPA(+)
MODULE



GSM/GRPS
MODULE



GNSS
MODULE

SIMCom Cellular Module Portfolio



Smart Module

SIM8980

- 44.1x45.6x2.8mm
- Quad-core kryo@2GHz
- Wi-Fi/BT/GPS

SIM8960

- 43x44x2.85mm
- Quad-core @1.8GHz
- Wi-Fi/BT/GPS

SIM8950LH

- 44.1x45.6x2.8mm
- Octa-core A53@1.8GHz
- Wi-Fi/BT/GPS

SIM8950X

- 44.1x45.6x2.8mm
- Octa-core A53@2GHz
- Wi-Fi/BT/GPS

SIM8906X

- 40.5x40.5x2.8mm
- Quad-core A53@1.3GHz
- Wi-Fi/BT/GPS

SIM8905X

- 40.5x40.5x2.8mm
- Quad-core A7@1.1GHz
- Wi-Fi/BT/GPS

5G Module

SIM8200NA

- 5G NR Sub 6GHz
- LGA Form Factor
- 43.6x41 mm
- North America Version

SIM8300NA

- 5G Sub 6GHz/mm wave
- LGA Form Factor
- 46.3x41 mm
- N. America Version

SIM8200NA-M.2

- 5G NR Sub 6GHz
- M.2 Interface
- 30x52mm
- N. America Version

SIM8300G-M.2

- 5G Sub 6GHz/mm wave
- M.2 Interface
- 30x52mm
- Global version

LTE-A /LTE-A Pro Module



SIM7920 X LTE Cat 20

- LTE with 7CA
- 2Gbps DL @Cat 20
- M.2 30x42mm

SIM7912 X LTE Cat 12

- LTE with 3CA
- 600M DL/50M UL
- M.2 30x42mm

SIM7906 X LTE Cat 6

- LTE with 2CA
- 300M DL/50M UL
- M.2 /PCIE

LTE Cat 1 module

SIM7500 X LTE Cat 1

- LCC Form Factor
- 150M DL/50M UL
- 24.0x27.0x2.75mm

PCIE version available

Super Small size LPWA module

SIM7090 G 14.8x12.8mm

- LGA Form Factor
- CAT-M1/NB2/GPRS/GNSS
- Super Small size
- Global Version

SIM7050 X LPWA

- LCC Form Factor
- NB2/GPRS dual mode
- 126K (DL)/150K (UL)
- GPRS :85.6K(DL/UL)

SIM7000 X/-N LPWA

- LCC Form Factor
- CAT-M1/NB1/GPRS GNSS

24.0x24.0 mm Family 2G – LPWA Migration

SIM7070 X LPWA

- LCC Form Factor
- CAT-M1/NB2/GPRS/GNSS
- - G : Global Version
- - E : 450MHz supported

SIM7060 R LPWA

- LCC Form Factor
- NB-IoT only
- 450MHz support

SIM7060 X LPWA

- LCC Form Factor
- NB-IoT+GNSS

SIM808 2G

- LCC Form Factor
- Quad band 2G
- GPS

SIM800A 2G

- LCC Form Factor
- Dual band 2G

17.6x15.7mm Family 2G – LPWA Migration

SIM7080 X LPWA

- LCC+LGA Form Factor
- CAT M1/NB2/GNSS
- Global Version

SIM7020 X LPWA

- LCC Form Factor
- NB-IoT only

SIM800H 2G

- LCC Form Factor
- Quad band 2G

SIM868/SIM868E 2G+GNSS

- LCC+LGA
- Quad band 2G
- GSM/GNSS/BL3.0/BLE

30.0x30.0mm Family 3G – 4G Migration

SIM7600 X -H LTE Cat 4

- LCC Form Factor
- 150M DL/50M UL
- 30x30x2.9mm

PCIE version available

SIM7600 CE LTE Cat 4

- LCC Form Factor
- 150M DL/50M UL
- For China

PCIE version available

SIM7600 X LTE Cat 1

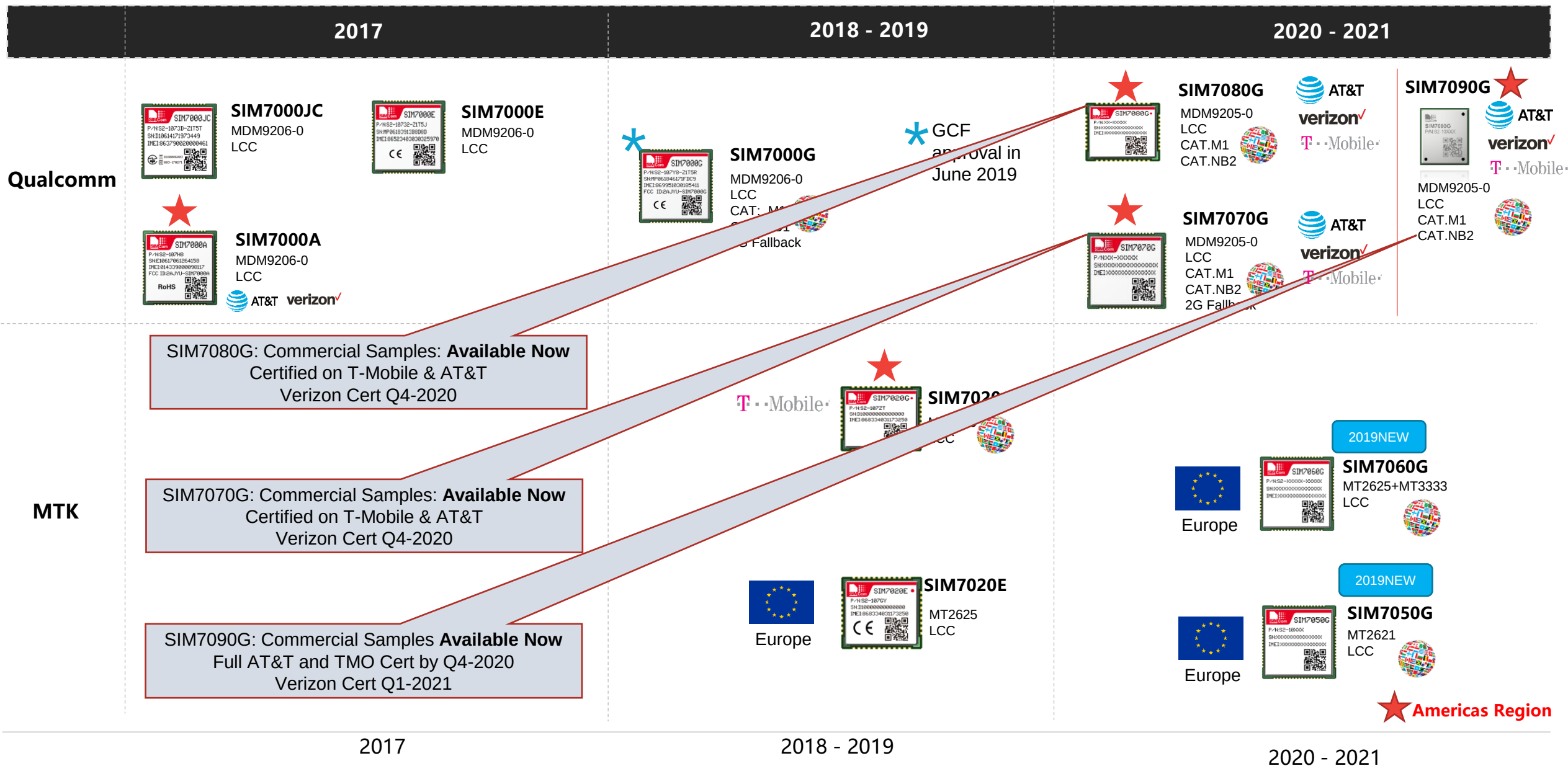
- LCC Form Factor
- 30x30x2.9mm
- 10Mbps DL/5Mbps UL

SIM5320 3G

- LCC Form Factor
- HSPA/Quad Band GSM
- 30x30x2.9mm

SIM800C 2G

- LCC Form Factor
- Quad band 2G



NB1 Only- MediaTek 2526 Chipset



SIM7020G

- Stationary Assets
- No GNSS
- NB1 Only
- Low Data usage
- 17x15 footprint



CatM1/NB1- Qualcomm 9206 Chipset



SIM7000A

- Mobile Assets
- Cat-M1 and NB1
- Includes GNSS
- Readily available
- 24x24 footprint



CatM1/NB2 – Qualcomm 9205 Chipset



SIM7070G

- Mobile Assets
- Cat-M1/NB2+ 2G
- Includes GNSS
- 24x24 footprint



SIM7080G

- Mobile Assets
- Cat-M1/NB2
- Includes GNSS
- 17x15 footprint



SIM7090G

- Mobile Assets
- Cat-M1 and NB2
- Includes GNSS
- 12x14 footprint



	2016	2017	2018 - 2019	2020 - 2021
Cat.4			 SIM7600A-H MDM9607-0 30x30mm LCC   SIM7600V-H MDM9607-0 30x30mm LCC verizon	 SIM7600G-H MDM9607-0 30x30mm LCC     SIM7600NA-H MDM9607-0 30x30mm LCC   
Cat.1	 SIM7500A MDM9207-1 24x27mm LGA 	 SIM7500V MDM9207-1 24x27mm LGA 	 SIM7600A MDM9207-1 30x30mm LCC   SIM7500AD MDM9207-1 24x27mm LCC 	 SIM7600G MDM9207-1 30x30mm LCC     SIM7600NA MDM9207-1 30x30mm LCC   

CS Available
AT&T & TMO Cert: Q4-20
Verizon Cert: Q1-21

	Carrier-Specific SKU Low-cost Cat-1 (no Cat-4 equivalent) 24x27 Footprint	Carrier-Specific SKU Available in Cat-1 or Cat-4 30x30 Footprint	Single SKU Global and North America Variants Available in Cat-1 or Cat-4 30x30 Footprint	
Cat.4	Note: While there are no pin-for-pin Cat-4 products for the SIM7500X family, a customer can nest the 24x27 footprint inside of 30x30 if they also need Cat-4	 SIM7600A-H MDM9607-0 30x30mm LCC   SIM7600V-H MDM9607-0 30x30mm LCC 	GLOBAL BANDED	NORTH AMERICA BANDED
Cat.1	 SIM7500A MDM9207-1 24x27mm LGA   SIM7500V MDM9207-1 24x27mm LGA   SIM7500AD MDM9207-1 24x27mm LCC 	 SIM7600A MDM9207-1 30x30mm LCC 	 SIM7600G-H MDM9607-0 30x30mm LCC     SIM7600G MDM9207-1 30x30mm LCC    Note: Slight price premium for Global (includes 3G & 2G). Optimized for global deployments, missing B71 and B14 for FirstNet.	 SIM7600NA-H MDM9607-0 30x30mm LCC     SIM7600NA MDM9207-1 30x30mm LCC    Note: Good compromise between Carrier-Specific & Single SKU. Includes all US Bands including FirstNet B1

	2019		2020
Cat.20			 SIM7920G-M2 SDX24 M.2 Factor Cat20 Global Bands  SIM7920G-PCIE SDX PCIE Factor Cat20 Global Bands No plans to certify in US unless requested by anchor customer Note: This product may be cancelled due to cannibalization of 5G
Cat.12		 SIM7912G-M2 MDM9X40 M.2 Factor Cat12 Global Bands  SIM7912G-PCIE MDM9X40 PCIE Factor Cat12 Global Bands No plans to certify in US unless requested by anchor customer	
Cat.6	Europe Only  SIM7906E-M2 MDM9X40 M.2 Factor Cat6 For Europe		



MSM8909 Chipset

MSM8953 Chipset

SDM450 Chipset

Cellular



SIM8905A
MSM8909-2
LCC+LGA
WiFi/BT/GNSS
40.5x40.5x2.8mm



SIM8905E
MSM8909-2
LCC+LGA
WiFi/BT/GNSS
40.5x40.5x2.8mm



SIM8950A/E
MSM8953
Octa Core 1.8 Ghz
LCC+LGA
WiFi/BT/GNSS
44x45.6x2.8 mm



SIM8950L
SDM450
LCC+LGA



SIM8950EC
44.1X45.6X2.8mm
SDM450 Octa-Core 1.8GHz
LTE B1/3/5/7/8/20/38/40/41
HSPA B1/5/8
GSM Dual Band
Dual LCD/Camera
WIFI/BT/GNSS



SIM8950AC
44.1X45.6X2.8mm
SDM450 Octa-Core 1.8GHz
LTE B2/4/5/12/14/25/26/41
HSPA B2/4/5
GSM Dual Band
Dual LCD/Camera
WIFI/BT/GNSS

WiFi



SIM8905E-W
MSM8909
Quad Core 1.1Ghz
LCC+LGA
WiFi/BT
40.5x40.5x2.8mm



SIM8950LH
SDM450
Octa Core 1.8 Ghz
WiFi/BT/GNSS
44x45.6x2.8 mm



Americas Region



	2019	2020
5G		
Cat.20		 SIM7920E-AU LGA 34*40*3.3mm X24 Cat20 C- V2X For Europe
Cat.4	2019NEW  SIM7800E MDM9628 LGA 34*40*3.3mm FDD/TDD/HSPA/GSM   SIM8100 MDM9150 LGA 30*32*3.3mm C-V2X	



2019Q1

2020Q1

2019 Q2

2019 Q3

2020 Q4

2021 Q1

2021 Q2

Sub-6G
+mmW



SIM8300G-M2

- M.2
- 30x52x3.8 mm
- 6+8 Antennas
- Global Version

Engineering Samples Available Now
Target H1-2021 for full certification



SIM8300NA

- LGA
- 43.6x41x2.8mm
- For North America

Engineering Samples Available in Q1-2021
Target H1-2021 for full certification

Sub-6G



SIM8200EA-M2

- M.2
- 30x52x2.3 mm
- 4 or 6 Antennas
- EMEA + APAC

For early testing only- will not be certified in
US Market. Does not support US NSA.



SIM8202G-M2

- M.2
- 30x42x2.3mm
- 4 Antennas
- Global Version



SIM8200G

- LGA
- 43.6x41x2.8 mm
- 8 Antennas
- Global Version



SIM8200NA

- LGA
- 43.6x41x2.8mm
- For North America



SIM8200NA-M2

- M.2
- 30x52x2.3mm
- For North America

Americas Region

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2019 Q2

2019 Q3

2020 Q4

2021 Q1

2021 Q2

Sub-6G
+mmW

Sub-6G



SIM8300G-M2

- M.2
- 30x52x3.8 mm
- 6+8 Antennas
- Global Version

Engineering Samples Available Now
Target H1-2021 for full certification



SIM8300NA

- LGA
- 43.6x41x2.8mm
- For North America



SIM8200NA

- LGA
- 43.6x41x2.8mm
- For North America



SIM8200NA-M2

- M.2
- 30x52x2.3mm
- For North America

Wi-Fi for LTE



W58



16.6x13mm
Base on QCA-9377-3
Wi-Fi ready with SIM7600X-H
IEEE 802.11b/g/n

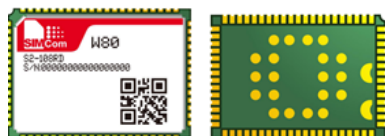


W59



16x18.3mm
Base on QCA-6574A-3
Auto Grade Wi-Fi ready with SIM7800
IEEE 802.11a/b/g/n/ac

Wi-Fi for 5G



W80



17x24mm
Base on QCA-6391
WIFI 6 ready with SIM8200 series
IEEE 802.11a/b/g/n/ac/ax
Support 2x2+2x2 MU-MIMO

Mass Production

Developing

Planning

	Before 2016	2016
WCDMA/ HSPA	 SIM5310 QSC6240 WCDMA:2100MHz Quad-band GSM LCC	 SIM5360x MDM6200 HSPA+/Quad-band GSM LCC
	  SIM5320x QSC6270 HSDPA/Quad-band GSM LCC 	 SIM5300E Intel XMM6255M HSPA+ 900/2100MHz GSM 900/1800MHz LCC  SIM5300EA Intel XMM6255M HSPA+ 900/2100MHz GSM 900/1800MHz LCC Support Analog Audio

Before 2017			2018	
2G	 SIM800L MT6261M Quad Band LGA	 SIM800C/C32 MT6261M/D Quad Band LCC	 SIM800A/A32/A64 MT6261M/D/A Dual Band LCC Compatible with SIM900	
	 SIM800H MT6260D Quad Band LGA	 SIM800/M64 MT6260D/A Quad Band LCC	 SIM800F/F64 MT6261D/A Quad Band LCC Compatible with SIM900	
	 SIM800G-2 MT6261M Dual Band LCC	 SIM900A-GW MT6261M Dual Band LCC	 SIM800C-DS MT6261D Quad Band LGA Dual SIM Dual Standby	
2G+GNSS			 SIM868 MT2503D Quad Band LCC	 SIM868E MT2503DE Support BLE LCC
			 SIM808 MT6261D+ MT3337 Quad Band LCC	

PRODUCT SUMMARY

STANDALONE GNSS

GNSS WITH EMBEDDED ANTENNA

GPS



SIM28
MT3339
LNA/SAW Inside
16*12.2*2.4mm



SIM28ML
MT3337
LNA/SAW Inside
10.1*.9.7*2.5mm



SIM28M
MT3339
LNA/SAW Inside
10.1*.9.7*2.5mm



SIM39EA
Embedded antenna
MT3339
LNA/SAW Inside
16.0*16.0*6.2mm



SIM39EA
Embedded antenna
MT3339
LNA/SAW Inside
22.0*22.0*7.5mm

GPS/Glonass



SIM68V
MT3333
LNA/SAW Inside
16.0* 12.2* 2.4mm



SIM68M
MT3333
LNA/SAW Inside
10.1* 9.7* 2.5mm



SIM68D
10.1* 9.7* 2.5mm

Dual Band, GPS/
Glonass/ Galileo/ QZSS



SIM33ELA
Embedded antenna
MT3333
LNA/SAW Inside
14.0* 9.6* 1.95mm



SIM33EAU
Embedded antenna
MT3333
LNA/SAW Inside
22.0*22.0*7.5mm

GPS/Beidou



SIM68VB
MT3333
LNA/SAW Inside
16.0* 12.2* 2.4mm



SIM68MB
MT3333
LNA/SAW Inside
10.1* 9.7* 2.5mm



SIM98VB
Beidou/ GPS
LNA/SAW Inside
16.0* 12.2* 2.4mm

CONTENTS



Company Profile

- Global Sales Network
 - Partners and certification
-



Quality management system

- Product Quality Control
- R&D Quality Control
-



Product Introduction

- LPWA
- LTE
- LTE-A
- Smart Modules
- 5G Solutions
- GNSS



Industry Applications

- Automotive Electronics
- Smart Industry
-

M2M Application



Smart
Energy



Automotive
Electronics



Smart
Industry



Smart
Payment



Wireless
Gateway



Smart
Life



Security
Monitoring



Urban Refined
Management



Smart
Agriculture

M2M Application



Smart Energy

- ◆ Power generation
- ◆ electricity consumption (charging pile)
- ◆ intelligent meter
- ◆ power distribution (distribution network monitoring equipment)



Automotive Electronics

- ◆ Vehicle-mounted system
- ◆ safe driving
- ◆ asset tracking
- ◆ UBI auto insurance and fleet management



Smart Industry

- ◆ Intelligent manufacturing
- ◆ DTU/RTU
- ◆ PLC/HMI
- ◆ Industrial robot
- ◆



Smart Payment

- ◆ POS machines
- ◆ portable scanning terminals
- ◆ vending machines
- ◆ shared coffee machines and industrial DTU



Wireless Gateway

- ◆ Industrial DTU



Smart Life

- ◆ massage chair sharing
- ◆ Blood pressure meter
- ◆ blood glucose meter
- ◆ personal tracking
- ◆ pet tracking
- ◆ wearable devices



Security Monitoring

- ◆ Fire hydrants
- ◆ elevator monitoring
- ◆ smart parking lots
- ◆ traffic lights
- ◆ intelligent manhole covers and street lamps



Urban Refined Management

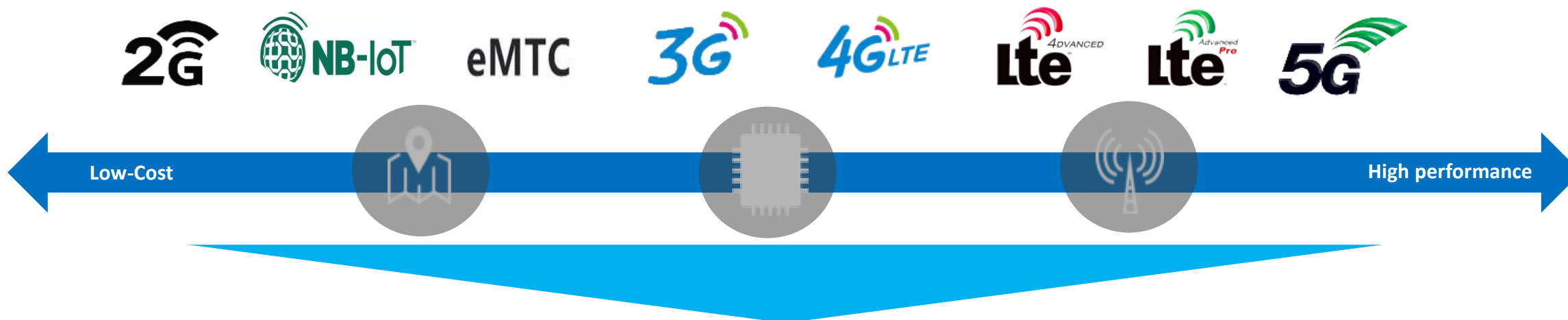
- ◆ Smart fire control
- ◆ smart government affairs
- ◆ smart transportation
- ◆ a smart water management system and smart buildings



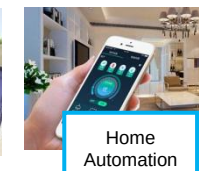
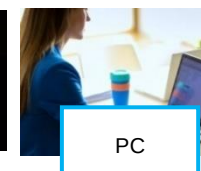
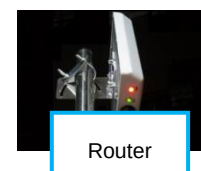
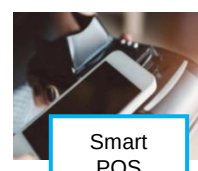
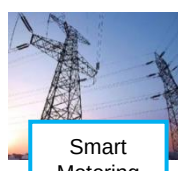
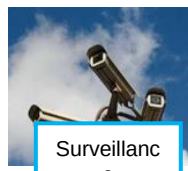
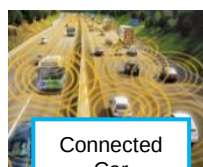
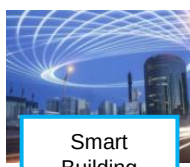
Smart Agriculture

- ◆ Intelligent breeding
- ◆ intelligent animal husbandry

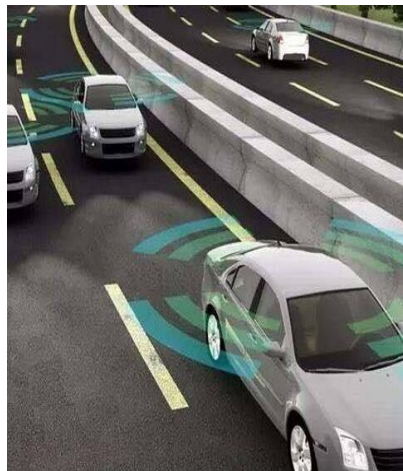
Complete IoT cellular module solutions



Enabling SIMCom Cellular module products



Where You Find us



Enabling the evolution of **Industry** towards smarter safer and more efficient factories



Enabling **Engery mangement** greener , smarter and more efficient

Making **home & cities** Smarter, for better living, higher security, more convenient



Enabling **Routers** higher bandwidth to get better user experience

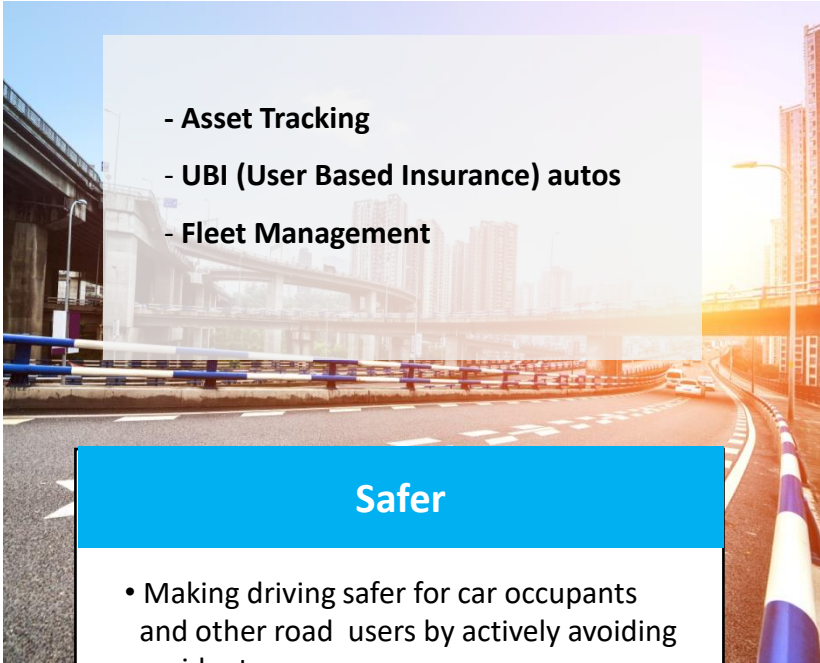
Making **driving** safer , Greener and more connected



Making **Mobile Payment** smarter, to build up new business mode

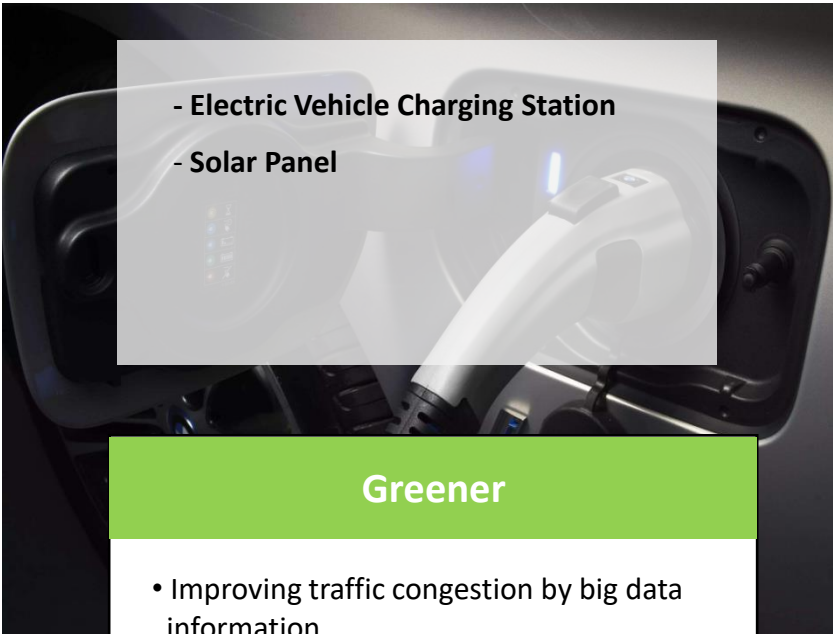


Making driving Safer, Greener and more Connected

- 
- Asset Tracking
 - UBI (User Based Insurance) autos
 - Fleet Management

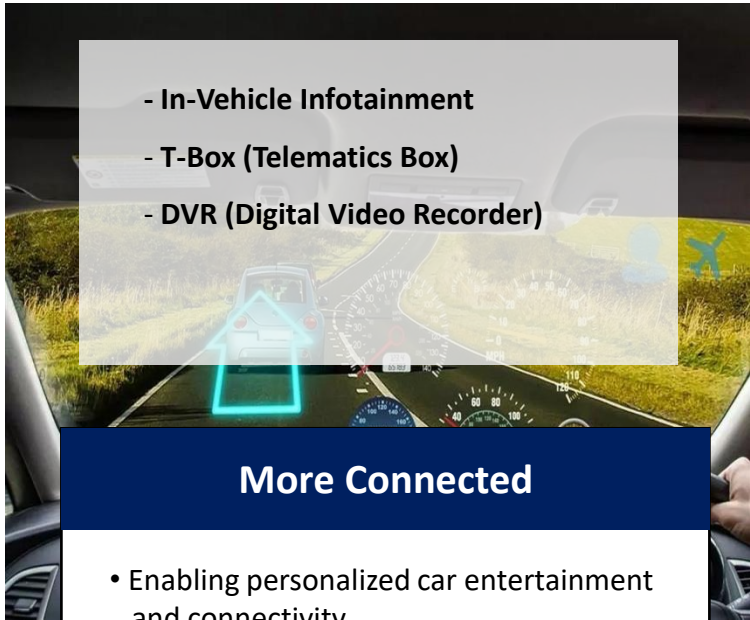
Safer

- Making driving safer for car occupants and other road users by actively avoiding accidents
- Having cars drive better than we can & always watching for threats

- 
- Electric Vehicle Charging Station
 - Solar Panel

Greener

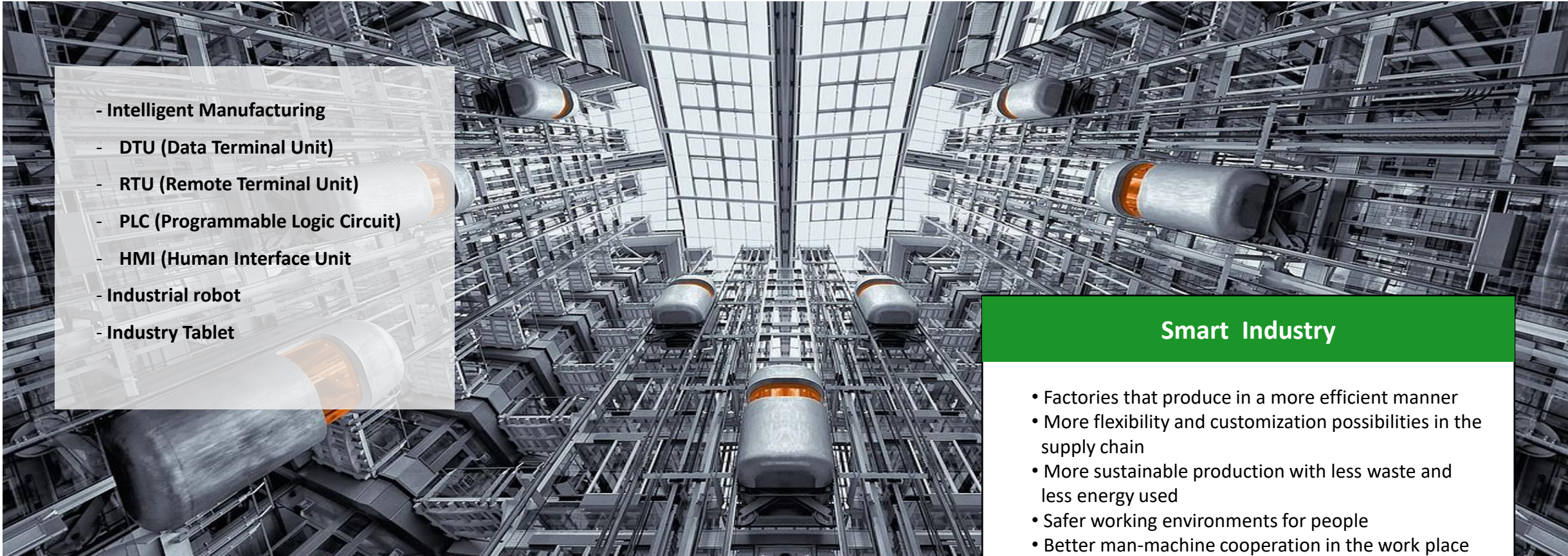
- Improving traffic congestion by big data information
- Moving towards electric vehicles

- 
- In-Vehicle Infotainment
 - T-Box (Telematics Box)
 - DVR (Digital Video Recorder)

More Connected

- Enabling personalized car entertainment and connectivity
- Allowing vehicles to communicate with with each other (C-V2X)

Enabling smarter, safer and more efficient factories and workplaces

- 
- Intelligent Manufacturing
 - DTU (Data Terminal Unit)
 - RTU (Remote Terminal Unit)
 - PLC (Programmable Logic Circuit)
 - HMI (Human Interface Unit)
 - Industrial robot
 - Industry Tablet

Smart Industry

- Factories that produce in a more efficient manner
- More flexibility and customization possibilities in the supply chain
- More sustainable production with less waste and less energy used
- Safer working environments for people
- Better man-machine cooperation in the work place
- Optimized usage of machines and tools

Enabling Energy Management greener ,smarter and more efficient

- Electricity Meter
- Gas Meter
- Water Meter
- Heat Meter
- Wind Turbines

Energy Management

- Expand device monitoring capability by adding cellular Network
- Save Human resources
- Provide Energy Management new solutions

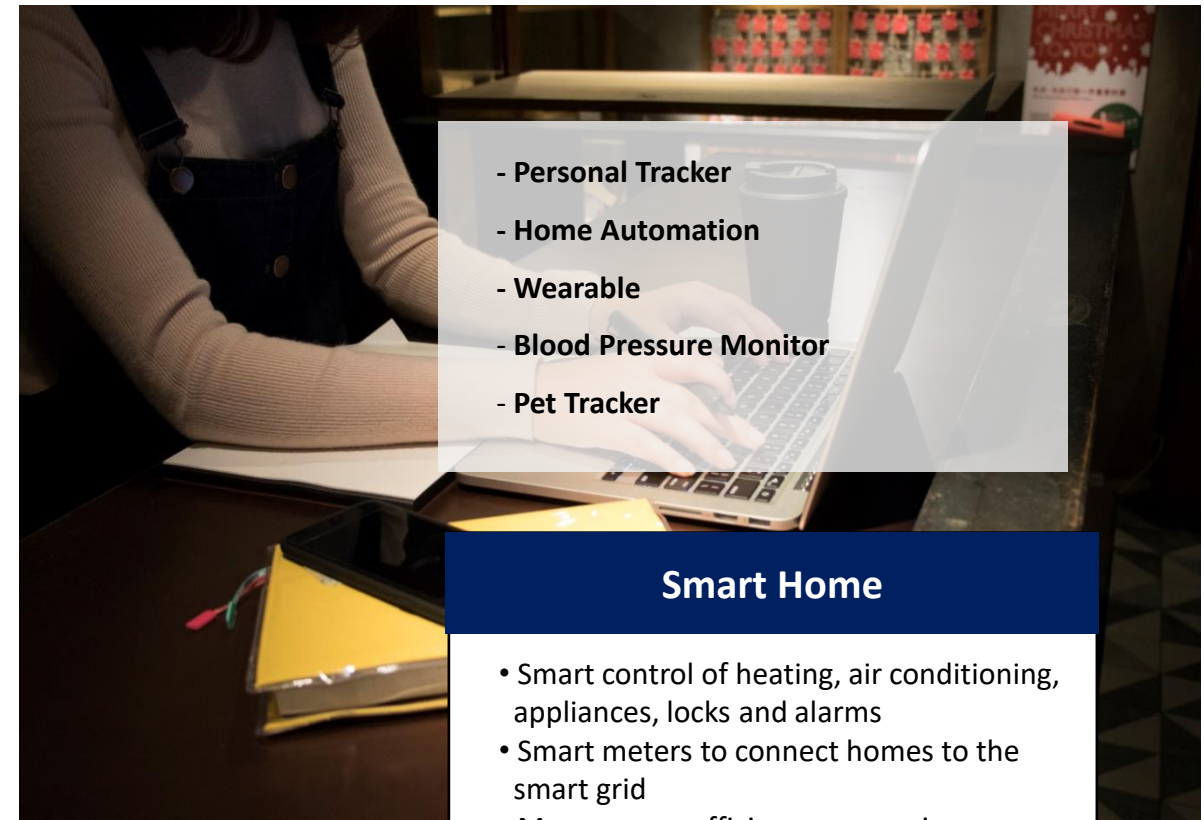
Making Home & Cities Smarter



- Smart Parking
- Smart Elevator
- Street Lighting
- Advertisement Display
- Sharing Economy

Smart City

- Smart city infrastructure into improve traffic and municipal services
- Intelligent ,adaptive street lighting
- Smart Buildings

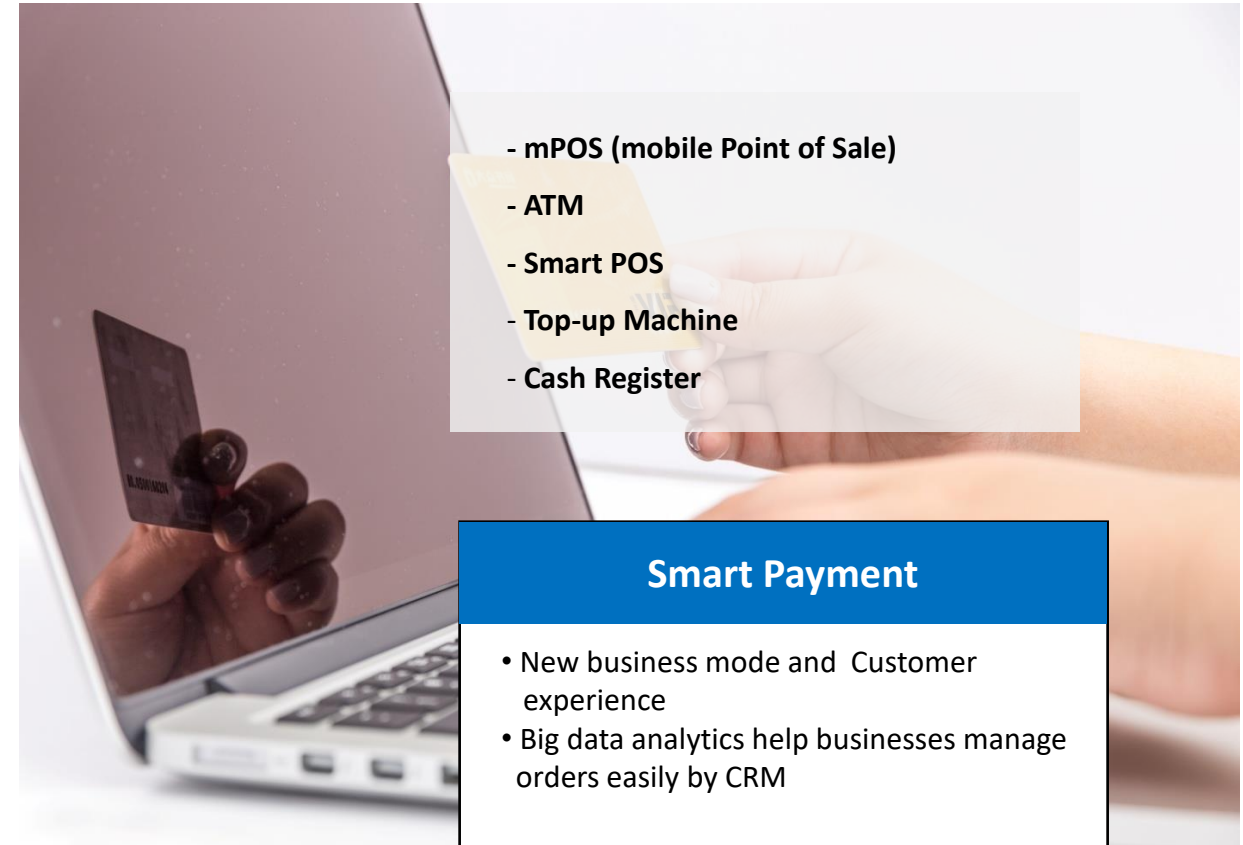


- Personal Tracker
- Home Automation
- Wearable
- Blood Pressure Monitor
- Pet Tracker

Smart Home

- Smart control of heating, air conditioning, appliances, locks and alarms
- Smart meters to connect homes to the smart grid
- More energy efficiency, convenience , comfort and security

Making Payment smarter and more convenient



- mPOS (mobile Point of Sale)
- ATM
- Smart POS
- Top-up Machine
- Cash Register

Smart Payment

- New business mode and Customer experience
- Big data analytics help businesses manage orders easily by CRM

Enabling Intelligent Surveillance more flexible ,and smarter

- 
- Video Surveillance
 - Gas Detector
 - Smarting Parking
 - Alarming
 - Access control system

Intelligent Surveillance

- Regardless of wired network
- Use Cellular network capability to ensure possibility of 4K video transmission



Making Every Things Smarter

- 
- Digital Signage
 - Toll Collection System
 - Trash Bin Remote
 - Smart Smoke Alarms
 - Smart Locks

A Smart Thing ...

- Understands the environment
- Manages data and transform it into actionable information
- Connected to the world
- Protects people and data
- Integrates easily with Cloud services



a **SUNSEA IoT** company

Thank you

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