



# SIMCom

# INTELTEK

Update

May 9<sup>th</sup> 2022

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**INVENTING A SMART FUTURE**

[www.simcom.com](http://www.simcom.com)

By Mr. Mads Fischer - SIMCom Wireless

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# About SIMCom at a glance



## Dedication

20+ years dedicated in IoT  
Rich industry experience  
Long term cellular technology  
roadmap -2G/3G/4G/5G/V2X  
module solution



## Capability

Global carriers and countries  
Certification  
Local sales and support team  
4 R&D Centers- Shanghai, Chongqi,  
Xi'an , ShenYang



## Motivation & Innovation

15%+ of revenue invested in  
R&D per year  
Nearly 20 years professional  
Technology accumulation  
More than 300+ patents

## Investment & Patents



# SIMCom market segments served

Focus :

IoT



Industry 4.0



Non-Focus :

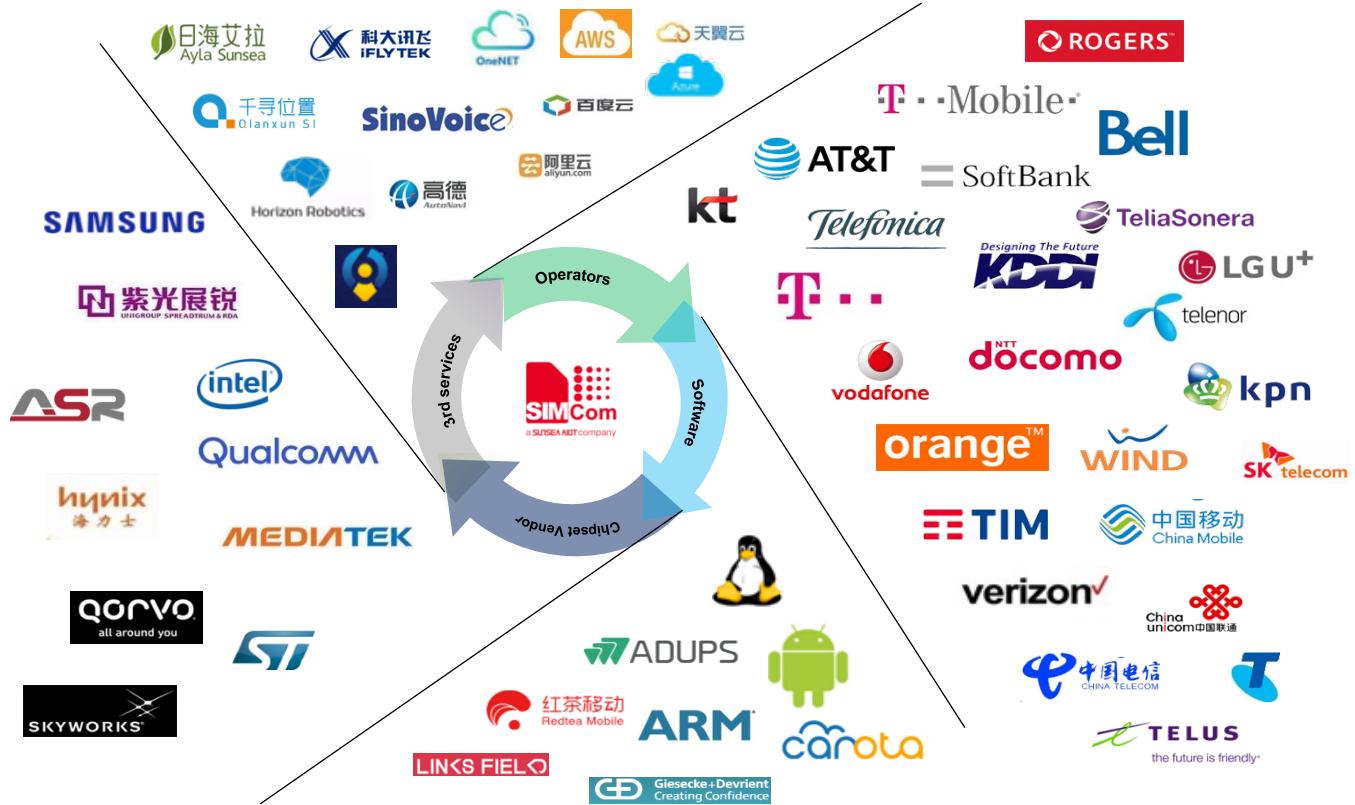


PC / Laptop



Automotive

# Key Partners and Companies



# Supply Chain Management

## Multiple qualified factories and automatic production lines

- Qualified factories includes Chenxing@Shenyang, BYD @Shenzhen, BIRD@Suizhou, Topwise@Huizhou, Haige@Huizhou
- 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



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

### Factories

- Chenxing@Shenyang
- BIRD @Suizhou
- BYD@Shenzhen
- Haige@Huizhou
- Topwise@Huizhou

### Production Capacity

- Professional Factory Team
- Advanced SMT Machine
- Daily production capacity >200K

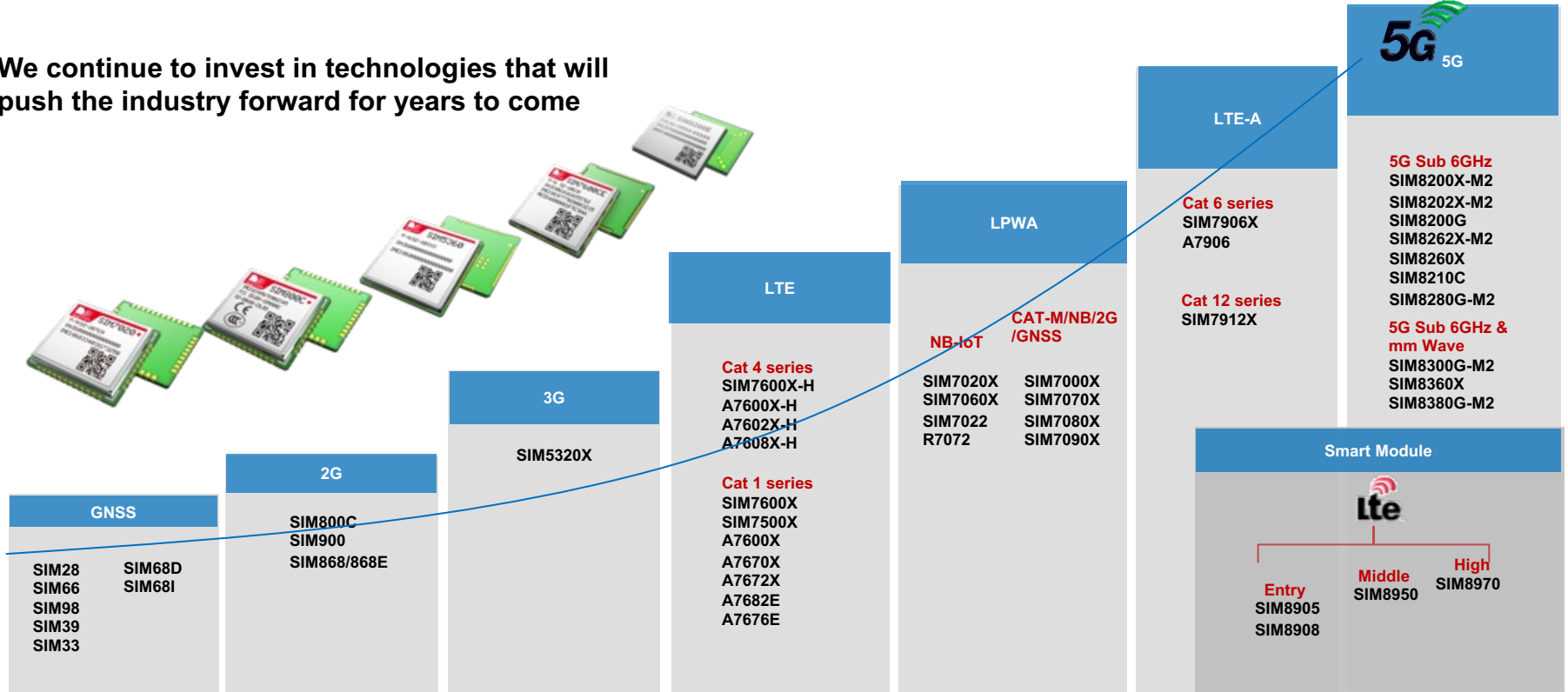
### Production System

- |              |                     |
|--------------|---------------------|
| - ISO9001    | - IATF 16949 : 2016 |
| - ISO14001   | - QC0800000         |
| - ISO27001   | - TL9000            |
| - OHSAS18001 | - ESD2020           |

SIMCom manufacturing strategy assures your supply with on-time delivery

# Delivering comprehensive product portfolio to the industry

We continue to invest in technologies that will push the industry forward for years to come





# Understand future technology demand

We continue to invest in technologies that will push the industry forward for years to come



Time is running  
How to replace  
2G and 3G?

- 1) LPWA (CAT-M / NB)
- 2) Low cost LTE CAT-1 bis

GNSS	
SIM28	SIM68D
SIM66	SIM68I
SIM98	
SIM39	
SIM33	

LTE
<b>Cat 4 series</b> SIM7600X-H A7600X-H A7602X-H A7608X-H
<b>Cat 1 series</b> SIM7600X SIM7500X A7600X A7670X A7672X A7682E A7676E

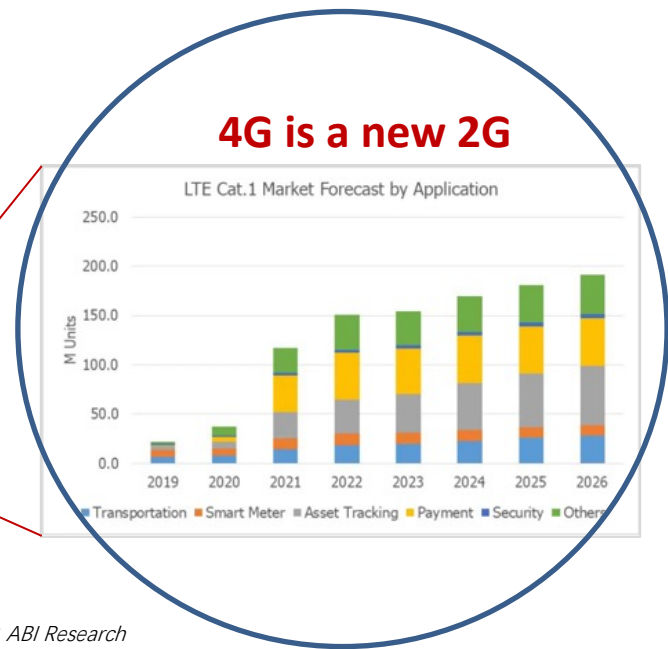
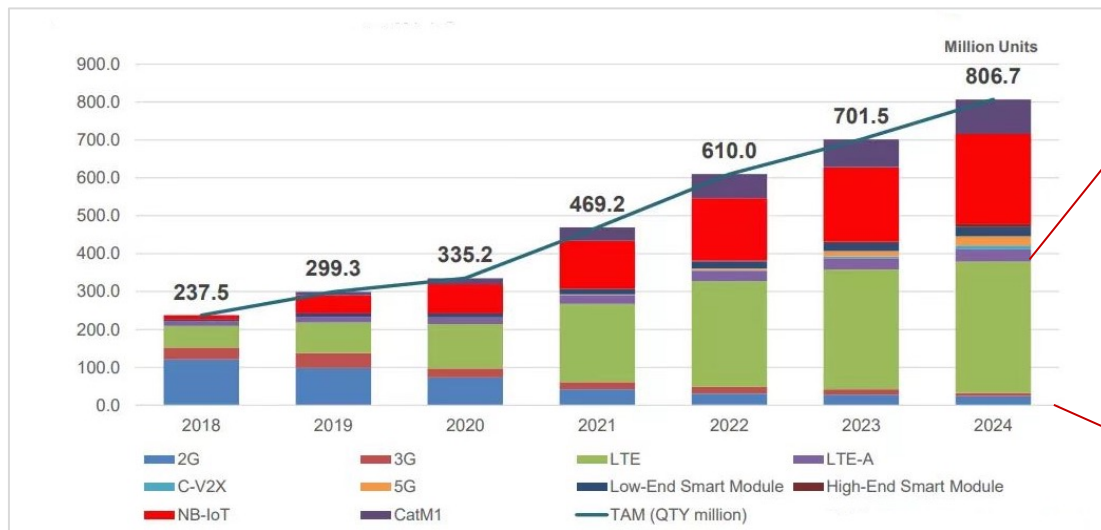
LPWA	
<b>NB-IoT</b> SIM7020X SIM7060X SIM7022 R7072	<b>CAT-M/NB/2G /GNSS</b> SIM7000X SIM7070X SIM7080X SIM7090X

LTE-A
<b>Cat 6 series</b> SIM7906X A7906
<b>Cat 12 series</b> SIM7912X

5G			
<b>5G Sub 6GHz</b> SIM8200X-M2 SIM8202X-M2 SIM8200G SIM8262X-M2 SIM8260X SIM8210C SIM8280G-M2			
<b>5G Sub 6GHz &amp; mm Wave</b> SIM8300G-M2 SIM8360X SIM8380G-M2			
Smart Module			
Lte <table border="1"> <tr> <td> <b>Entry</b>                              SIM8905                              SIM8908                         </td> <td> <b>Middle</b>                              SIM8950                         </td> <td> <b>High</b>                              SIM8970                         </td> </tr> </table>	<b>Entry</b> SIM8905 SIM8908	<b>Middle</b> SIM8950	<b>High</b> SIM8970
<b>Entry</b> SIM8905 SIM8908	<b>Middle</b> SIM8950	<b>High</b> SIM8970	

# Cellular M2M Module Market keep on growing

Cellular M2M module shipment forecast by standard



Source : ABI Research

- 2021 in Review : About 400 million units of cellular IoT module shipments (for industrial and automotive, excluding cellular module for computing, consumer and broadband devices), 28.6% of strong YoY growth.
- Regarding cellular standard, many industrial IoT applications do not require high data throughput but requires wide coverage. In 2020-2021, about 80% of module shipments are 2G/3G or low category LTE/LPWA .But 2G/3G market shrinks continuously, LPWA(Cat.M/NB-IoT) and LTE Cat.1 accounts for nearly 60% in 2021



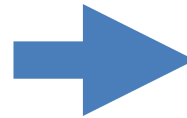
# Technology selection complexity

2G

3G



← Old - New →



NB-IoT

LTE-M

Lte

Lte 4ADVANCED

5G

3GPP  
A GLOBAL INITIATIVE

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# LPWA Module Product Roadmap



CAT-M /  
NB-IoT /  
EGPRS /  
GNSS



### SIM7000X

- LCC
- CAT-M/NB-IoT/EGPRS
- -A/-E/-JC/-G
- MDM9206



### SIM7070X

- LCC
- CAT-M/NB-IoT/EGPRS
- -G/-E(LTE450 support)
- MDM9205



### SIM7080G

- LCC+LGA
- CAT-M/NB-IoT
- MDM9205



### SIM7090G

- LGA
- 14.8\*12.8\*2.0mm
- CAT-M/NB-IoT
- MDM9205

NB-IoT /  
GNSS



### SIM7060G

- LCC
- NB-IoT+GNSS
- MTK2625 + Airoha



### Y7080E

- LCC
- NB-IoT + GNSS
- Europe only

NB-IoT /  
2G



### R7072

- LCC
- NB-IoT+2G
- UniSoc

NB-IoT



### SIM7060R

- LCC
- NB-IoT
- LTE450MHz supported
- MTK2625



### SIM7020X

- LCC/LCC+LGA
- NB-IoT
- -E/-G
- MTK2625



### SIM7022

- LCC
- NB-IoT
- QCX212

24.0x24.0 mm

15.7x17.6 mm

# LTE Module Product Roadmap



Cat.1-Cat.4 migration 30\*30mm

Cat.4



**SIM7600X-H (A/V/E/SA/JC/NA/G)**

- LCC
- 30\*30\*2.9mm
- LTE Cat.4



**A7602X-H(E/SA)**

- LCC+LGA
- 30\*30\*2.5mm
- LTE Cat.4

**ASR1803**

Cat.3



**SIM7100X(A/E/JC/JE)**

- LCC
- 30\*30\*2.9mm
- LTE Cat.3



**SIM7600X (A/E/SA/NA/G)**

- LCC
- 30\*30\*2.9mm
- LTE Cat.1



**A7600E**

- LCC+LGA
- 30\*30\*2.5mm
- LTE Cat.1



**A7602E**

- LCC+LGA
- 30\*30\*2.4mm
- LTE Cat.1

Cat.1



**SIM7500X(A/V/E/SA/JC/JE)**

- LGA
- 24\*27\*2.75mm
- LTE Cat.1



**A7670X**

- LGA
- 24\*24\*2.5mm
- LTE Cat.1



**A7682E**

- LGA
- 19.6\*19.6\*2.4mm
- LTE Cat.1

**ASR1603**



**A7676E**

- LCC+LGA
- 24\*24\*2.4mm
- LTE Cat.1 w.450Mhz

**A7672X(E/SA)**

- LCC+LGA
- 24\*24\*2.4mm
- LTE Cat.1

2016

2017

2020

2021

2022

# LTE Cat.1 Low Cost Solution Product Roadmap

Before 2022

2022 Q1

2022 Q2 Later

30mm\*30mm

**A7600E-LNSE**



- CAT 1 + 2G
- EMEA
- 128Mb

**A7602E**



- CAT 1 + 2G
- EMEA
- GNSS\*
- 128Mb

19.6mm\*19.6mm

**A7682E**



- CAT 1 + 2G
- For EMEA
- 128Mb
- **Footprint Compatible with SIM800C**

24mm\*24mm

**A7670E**



- CAT 1 + GSM
- For EMEA
- 128Mb

**A7672S**



- CAT 1 + 2G
- South Asia
- 128Mb
- GNSS\*
- Bluetooth\*

**A7672E**



- CAT 1 + 2G
- EMEA
- 128Mb
- GNSS\*
- Bluetooth\*

**A7672SA**



- CAT 1 + 2G
- -SA
- 128Mb
- GNSS\*
- Bluetooth\*

**A7676E**



- CAT 1 + 2G
- **LTE450MHz**
- B1/3/8/20/31/72
- 128Mb
- GNSS\*

**A7672G - Plan**



- CAT 1 + 2G
- Global Coverage
- 128Mb

**SIM7672X - Plan**



- CAT 1 **Only**
- Global Coverage
- 32Mb

\*Optional

# LTE450 Module Product Roadmap

## SIMCom 24\*24 Family

LTE  
CAT-1/CAT-1 BIS  
&2G  
GNSS\* (option)



- A7676E**
- LCC+LGA
  - 24\*24\*2.4mm
  - CAT-1/2G/GNSS (Option)

CAT-M  
&NB-IoT  
& 2G\* (option)  
GNSS



- SIM7070E**
- LCC
  - 24\*24\*2.3mm
  - CAT-M/NB-IoT/2G\*/GNSS

NB-IoT



- SIM7060R**
- LCC
  - 24\*24\*2.6mm
  - NB-IoT

# LTE-A Module Product Roadmap

## Qualcomm X12

Cat 12



- SIM7912G -M2**
- LTE Cat 12
  - 600M DL/150 UL
  - M.2 Interface



- SIM7912X**
- LTE Cat 12
  - 600M DL/150M UL
  - LGA Form Factor
  - -E/-A



- SIM7912G-M2 R2**
- LTE Cat 12
  - 600M DL/150M UL
  - M.2 Interface
  - Global Version



- SIM7912X-M2**
- LTE Cat 12
  - 600M DL/150M UL
  - M.2 Interface
  - -E/-A

Cat 6



- SIM7906X -M2**
- LTE Cat 6
  - 300M DL/75M UL
  - M.2 Interface
  - -E/-SA



- A7906X - M2**
- LTE Cat 6
  - 300M DL/ 50M UL
  - M.2 Interface



- SIM7906X**
- LTE Cat 6
  - 300M DL/50M UL
  - LGA Form Factor
  - -E/-A



- SIM7906G-M2**
- LTE Cat 6
  - 300M DL/50M UL
  - M.2 Interface
  - Global Version



- SIM7906X - PCIE**
- LTE Cat 6
  - 300M DL/75M UL
  - mPCIe Interface



- SIM7906X-M2**
- LTE Cat 6
  - 300M DL/50M UL
  - M.2 Interface
  - -E/-A


*Note: Special variants for CBRS/LAA/4x4 MIMO*

# 5G Module Product Roadmap

## SDX55

## SDX62/SDX65

Sub6+mmW



**SIM8300G-M2**

- M.2
- 30\*52\*3.65mm



**SIM8360X**

- LGA
- 41\*43.6mm
- 5G NSA/SA
- Rel.16



**SIM8380G-M2**

- M.2
- 30\*52\*2.3mm
- Global Version
- 4+2 Antenna

Q2.22

Sub6  
LGA



**SIM8200G**

- LGA
- 41\*43.6\*2.8 mm



**SIM8260X**

- LGA
- 41\*43.6mm
- 5G NSA/SA
- Rel.16
- Regional (A/C/E)

Sub6  
30\*52 M.2



**SIM8200EA-M2**

- M.2
- 30\*52\*2.3 mm



**SIM8260C-M2**

- M.2
- 30\*52 mm
- 5G NSA/SA
- Rel.16



**SIM8280G-M2**

- M.2
- 30\*52\*2.3mm
- Global Version
- 4 Antenna

Q2.22

Sub6  
30\*42 M.2



**SIM8202X-M2**

- M.2
- 30\*42\*2.3 mm



**SIM8262X-M2**

- M.2
- 30\*42 mm
- 5G NSA/SA
- Rel.16
- Regional (A/E)



# Smart Module Product Roadmap

High



## SIM8970X

- 44.1\*45.6\*2.8mm
- LCC+LGA Package
- LTE Cat.6,300M DL/50M UL
- CPU QCM6125 ,Octa ARM V-8 cores up to 2.0GHz
- 2520\*1080 Dual display
- Camera 25MP
- Wi-Fi/BT/GNSS integrated
- Android OS
- -EU/-SA

Med



## SIM8950X

- 44.1x45.6x2.8mm
- LCC+LGA Package
- LTE Cat.4,150M DL/50M UL
- CPU Octa-Core A53 1.8GHz 64bit
- Display 4K@30fps
- Dual Display support
- Camera 24MP 13MP+13MP
- Wi-Fi/BT/GNSS integrated
- Android OS
- -EC/-AC

*Pin to Pin compatible*

Entry



## SIM8905X

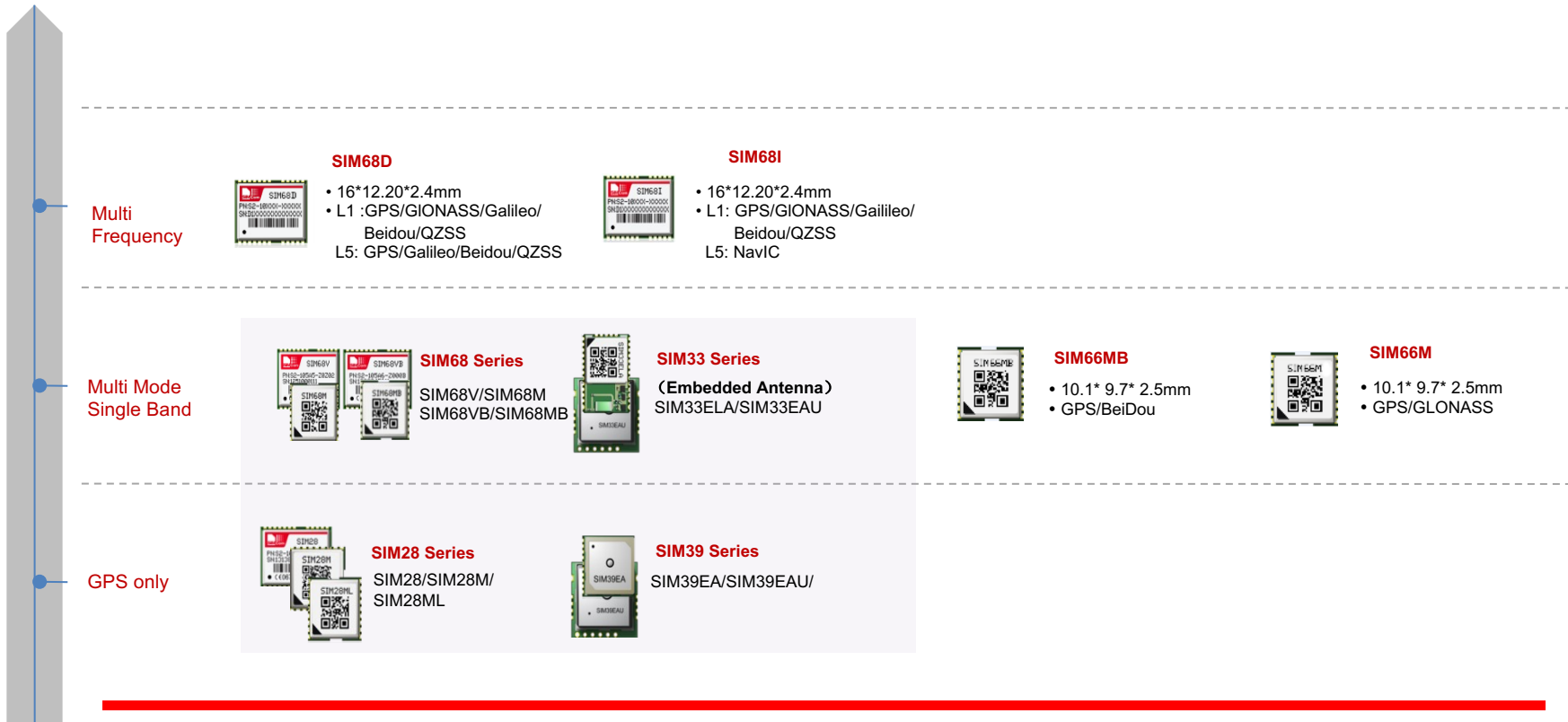
- 40.5x40.5x2.8mm
- LCC+LGA Package
- LTE Cat.4,150M DL/50M UL
- CPU 4xA7 1.1GHz
- 720P HD Display
- Camera 8MP
- Wi-Fi/BT/GNSS integrated
- Android OS/ Linux OS
- -A/-C



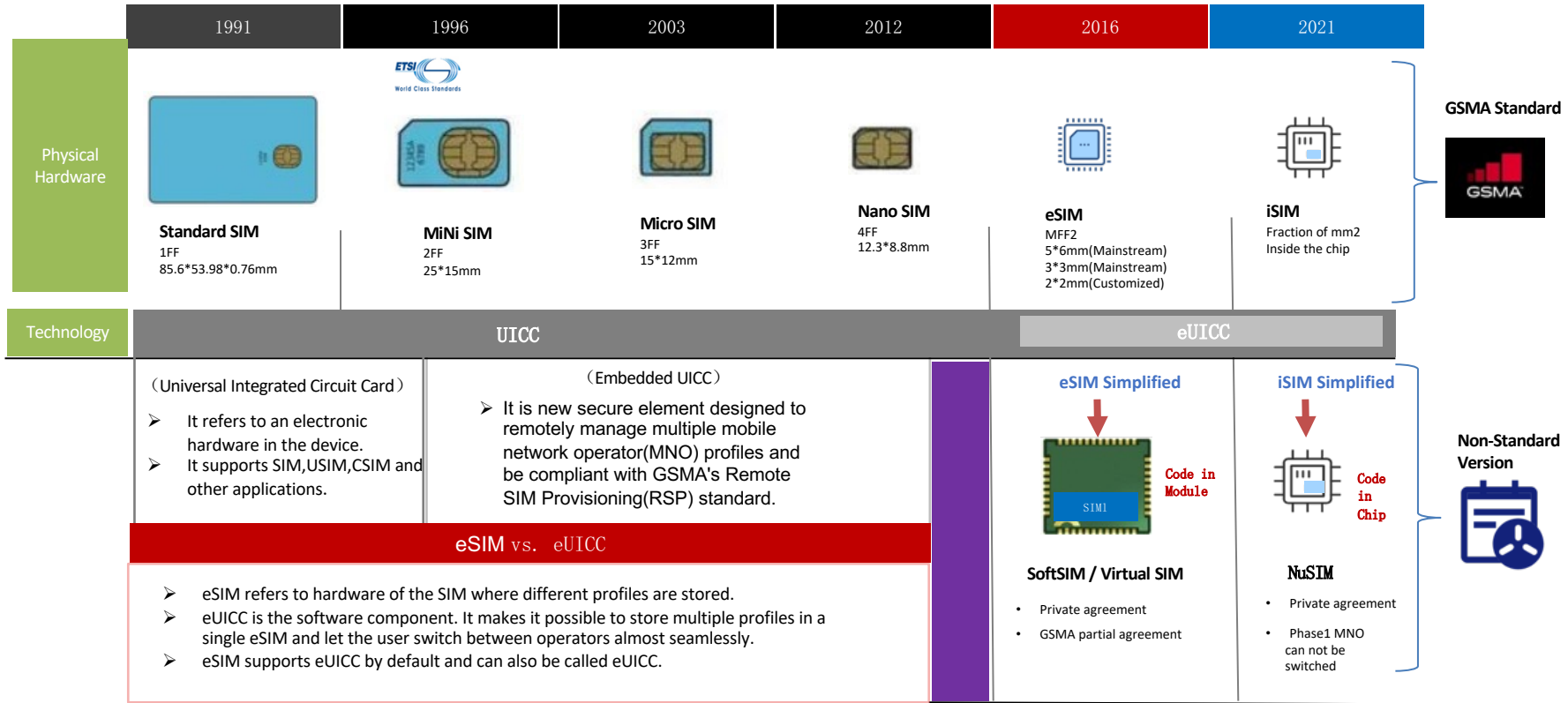
## SIM8908X

- 40.5x40.5x2.8mm
- LCC+LGA Package
- LTE Cat.4,150M DL/50M UL
- CPU 4xA53 2.0GHz
- 1680\*720 HD+ Display
- Camera 13MP
- Wi-Fi/BT/GNSS integrated
- Android OS/
- -CE/-EA

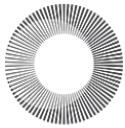
# GNSS Module Product Roadmap



# SIM Card Development Roadmap and Future Trend



# Ecosystem approach

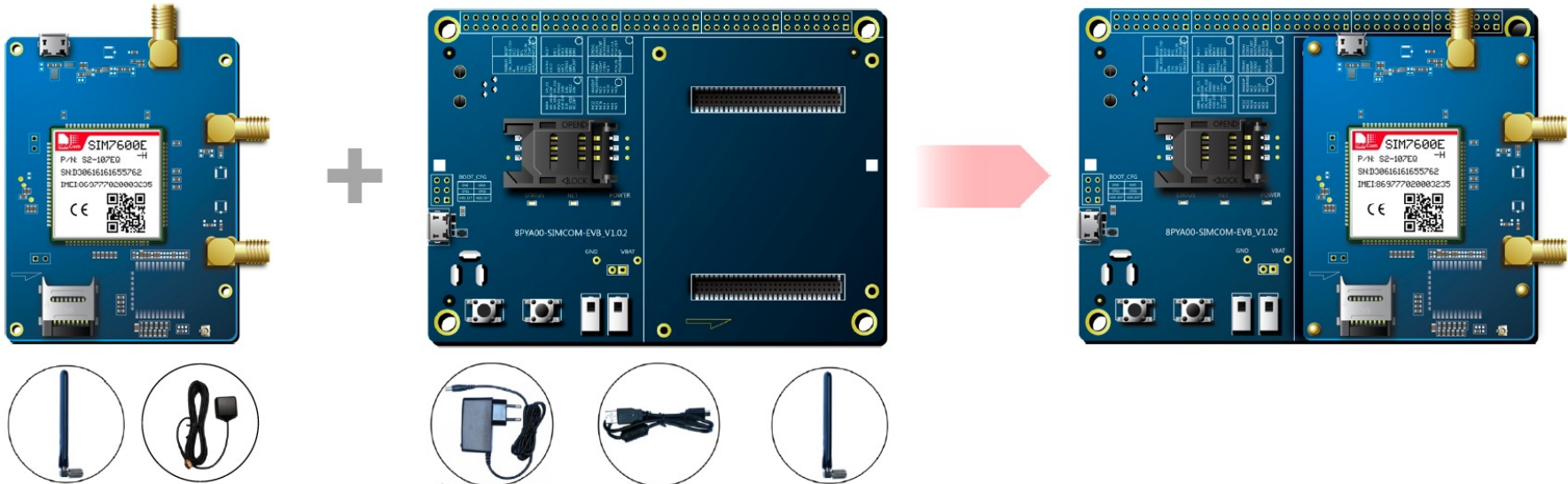


onomondo



## SIMCom Module EVB Kit Pictures

- SIM800C, SIM800F, SIM868, SIM868E;
- SIM7000X, SIM7060G, SIM7070X, SIM7080G;
- SIM7500X, SIM7600X, SIM7600X-H;
- A7600E, A7670X, A7672X, A7682E, A7676E, A7602E, A7602E-H, A7608SA-H;





# Thank you !

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