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# SIMCom Case Study

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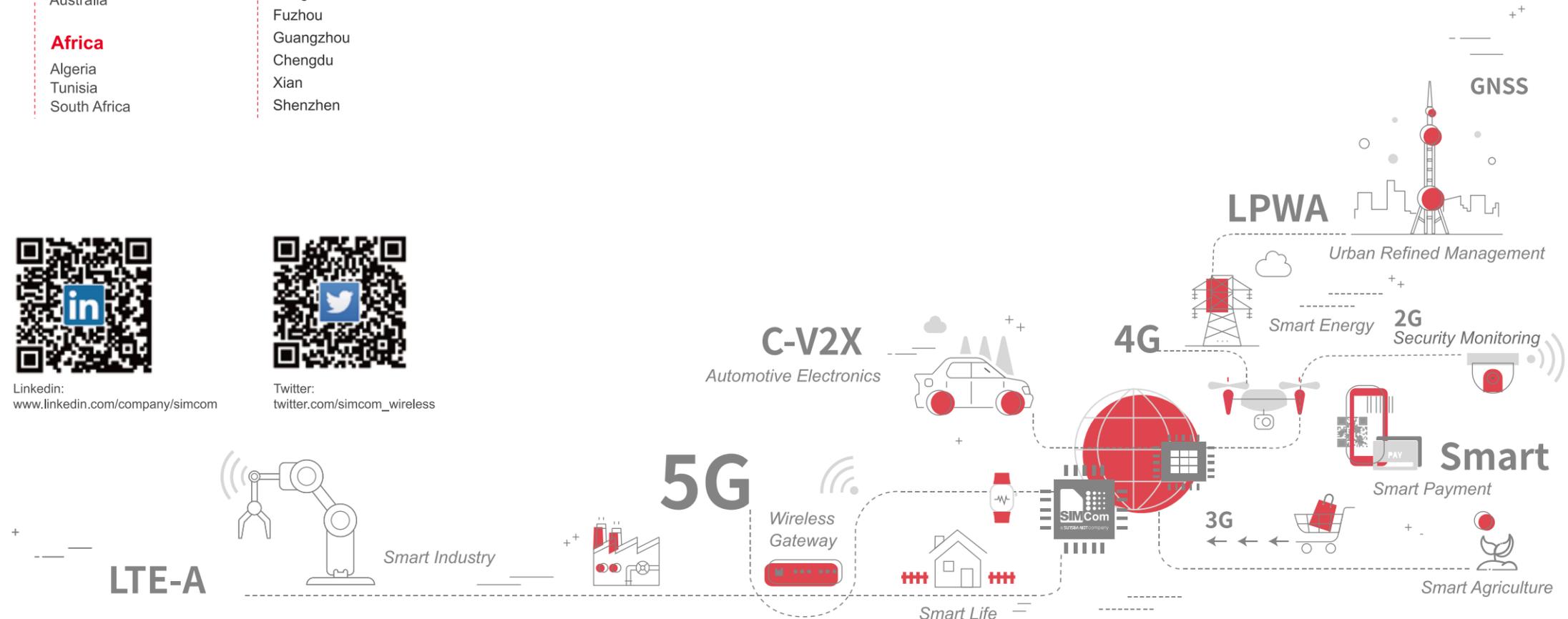
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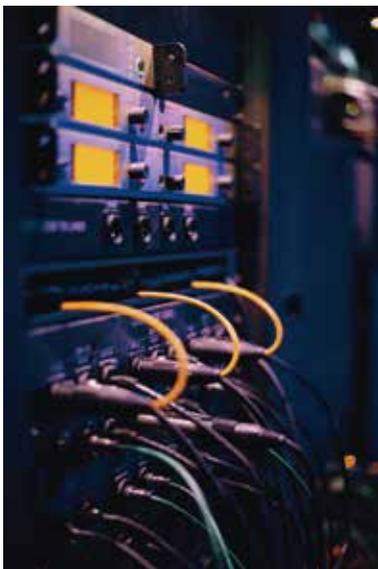


# 5G Module

SIM8200EA-M2 is developed on the basis of the Qualcomm 5G NR modem Snapdragon X55 and has two available packaging options, M.2 and LGA. SIM8200EA-M2 is a 7nm single chip, which supports 3G/4G/5G and 5G NR sub-6GHz. The peak rate is UE Cat22. It also supports independent SA and NSA (non-independent) network deployment. In 5G mode, its maximum download speed reaches up to 4Gbps. The main applications include fixed wireless access terminals, multimedia video terminals, security monitoring equipment, and mobile offices and so on.



		SIM8200EA-M2	SIM8200G	SIM8300G-M2
<b>Size</b>		30.0*52.0*2.3mm	41.0*43.6*2.8mm	30.0*52.0*3.8mm
<b>Band</b>	5G NR	n1,n2,n3,n5,n7,n8,n12,n20,n25,n28,n40,n41,n66,n71,n77,n78,n79		
	LTE-TDD	B34/B38/B39/B40/B41/B42/B43/B48		
	LTE-FDD	B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71		
	WCDMA	B1/B2/B3/B4/B5/B8		
	mmWave			n257/n258/n260/261
<b>Data Transmission</b>	Sub-6G	4Gbps(DL)/300Mbps(UL)	4Gbps(DL)/450Mbps(UL)	4Gbps(DL)/450Mbps(UL) mmWave 6 Gbps(DL)
	LTE-CAT22	2.4Gbps(DL)/150Mbps(UL)	2.4Gbps(DL)/200Mbps(UL)	4Gbps(DL)/200Mbps(UL)
<b>Certification</b>		RoHS Compliant/ CCC/ CTA, SRRC/ REACH/ CE/ FCC/ GCF		
<b>Application Scenarios</b>		CPE/Smart Laptop /Smart Gateway /Smart Security /Automotive		



## 5G Industry Router

In the 5G era, smart homes, smart cities, smart transport and smart manufacturing will be more operable and no longer only exist in spoken or written words. We can never achieve these revolutions without the development of network technology, including the router tech. Routers, which provide easy connectivity, have become essential devices in network nodes.

Industry router is a fundamental staff in the wireless communication. SIMCom 5G module SIM8200EA-M2 has been used in the 5G industry router, it can use public 3G/4G/5G networks to provide users with long-range wireless big data transmission. The 5G industrial router adopts high-performance industrial 32-bit communication processors and industrial wireless modules and an embedded real-time OS is operating as its software support platform. With a RS232 (or RS485/RS422), 4 Ethernet LANs, an Ethernet WAN and a WIFI interface, it can connect to serial port devices, Ethernet devices and WIFI devices simultaneously, realizing transparent data transmission and routing functions.

**Advantages:** ★ Improve the speed of data transmission    ★ Higher stability    ★ Multi-scene applications

## 5G CPE

5G CPE supports 5G Sub-6GHz global band and the 6th generation WIFI 802.11ax technology. It supports 4X4 MIMO and LAA, over a 5G network, downloading rate can be up to 4Gbps. Meanwhile, this 5G CPE supports 4G/5G dual mode. You can gain high-speed Internet experience in both stable 4G network and currently public concerned 5G network. Besides, it can adapt to the network conditions of different global operators, seamlessly upgrading from 4G to 5G.

It's very suitable for applications such as smart home, smart city, on-board WIFI, shared cars, etc.



**Advantages:** ★ Higher transmission speed   ★ Adapt to various global operators' network   ★ Higher stability



## 5G Dongle

UM80 adopts SIMCom high performance 5G module SIM8200EA-M2. It's mainly used for different IoT areas such as smart home, PC, finance, transportation, security surveillance, environmental protection, remote diagnosis, robot, drone, smart agriculture, etc.



UM80

6 built-in antenna

High speed transmission

Standard USB interface

**Advantages:** ★ Improve the safety   ★ Support various applications

# 5G Robot

A new 5G Cloud security robot that calls Patrol-ML has been developed with SIMCom's 5G module. This 5G Robot has autonomous patrol navigation and visual identification analysis. It has real-time positioning and automatic obstacle avoidance. When the battery is finished, it can return back automatically for charging. Besides, with the high definition camera and series environmental sensors, it can do environmental monitoring timely. Furthermore, it has the ability of face & license plate recognition, so it can do the visual identification analysis accurately.

Another 5G outdoor patrol robot calls Cloud patrol—AN, it has warning message broadcast with looping voice messages. Meanwhile, it has ability of face & ID recognition, so it can do the uninterrupted scanning of faces and background identity comparison



## Cloud Security Robot

— Patrol-ML

- 
**Autonomous patrol navigation**  
 Real-time positioning, automatic obstacle avoidance, automatic return for charging
- 
**Environmental monitoring**  
 High definition camera, series environmental sensor
- 
**Visual identification analysis**  
 Face & license plate recognition, uninterrupted scanning face and ID comparison in background
- 
**Property management service**  
 Knowledge propaganda, information issue, etc.



## Outdoor Patrol Robot

— Cloudpatrol—AN

- 
**Face & ID Recognition**  
 Uninterrupted scanning of faces and background identity comparison
- 
**Warning Message Broadcast**  
 Looping voice messages



- Advantages:**
- ★ Cloud smart control
  - ★ Powerful hardware and Powerful AI
  - ★ Security linkage coordination
  - ★ All day autonomous function

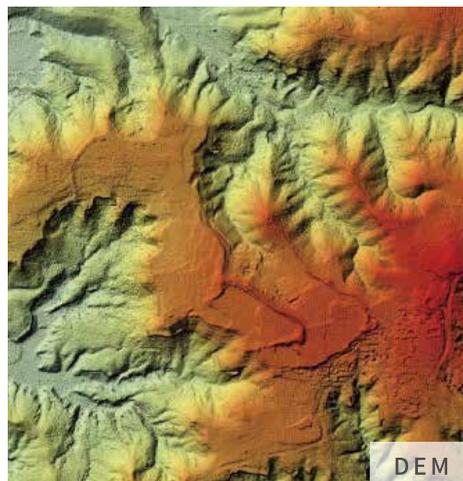
## 5G Drone

A Long-endurance electric drone platform CW-15 has been developed with 5G module. This drone has long duration of flight which can last for 160 min. The maximum takeoff weight is 16kg, the patrol speed and maximum speed is 90/105km/h separately. In addition, it has strong resistance for wind with wind loading rating at 6.

This 5G drone mainly used for operation in small and medium sized, high precision areas, especially for projects with flight area within 40 square kilometers each time. It has an orthophotography system, which can efficiently collect high precision aviation vertical photographing data, and can be used for 4D products for construction planning after post-processing, such as DOM, DEM, DSM, DLG, etc.



It also has a Five-lens oblique photography system, which is more suitable for fixed wing mode operation, featuring appropriate focal length, high compatibility and low maintenance cost; It can simultaneously output five-way POS information, accurately record exposure data of each camera and improve mapping precision of indoor work.



## Automotive Module

SIM7800E is an automotive grade module based on Qualcomm's MDM9628 LTE CAT4, available in LGA package with 34x40x2.9mm form factor. With downlink up to 150Mbps and uplink up to 50Mbps, SIM7800E supports the frequency bands of China's three major telecom operators. Designed with the latest network security in mind, SIM7800E can meet automotive security architecture standard, leveraging multiple security mechanisms to guarantee the communication security between the vehicle and the Internet. SIM7800E also allows customers to carry out software secondary development according to market needs and has reserved high-speed Ethernet interfaces to enable high-bandwidth network communication with in-vehicle intranet gateways.



	SIM7800E	SIM8100
<b>Size</b>	34*40*3.1mm	30x32x2.75mm
<b>Data Transmission</b>	150Mbps(DL)/ 50Mbps(UL)	3GPP Release 14 CV2X PC-5 mode
<b>Band</b>	LTE-TDD B38/B40/B41 LTE-FDD B1/B3/B5/B7/B8/B20 WCDMA B1/B5/B8 GSM:900/1800MHz	B47/B46D
<b>Certification</b>	RoHS / REACH	TBD
<b>Application Scenarios</b>	Vehicle Tracking /OBD /Vehicle DVR /T-Box	



## 4G T-Box In-Vehicle Equipment

According to IHS forecasts, the global automotive electronics market is expected to reach US\$300 billion by 2020 with enormous growth potentials. From the product perspective, automotive electronics application has been focusing on powertrain, chassis and car body over the last decade. In the future, Internet of Vehicles will no longer be confined to vehicle awareness. The focus will shift to smart terminals connected to extranets.

With increasing demands from car owners, the majority of new vehicles will be equipped with networking capabilities in the future. The penetration rate of vehicle interconnectivity will increase year by year. With complicated and harsh in-vehicle environment, this requires high standards on equipment and components, and core components need to meet automotive grade requirements. Manufactured strictly according to the IATF 16949:2016 quality standard, SIMCom's SIM7800E automotive grade modules can provide OEMs and tier-1s vendors with a more stable and reliable solution.

## Smart Module

SIM8950 module is equipped with Octa-core Cortex-A53 @ 1.8GHz processor, with support for WUXGA display, up to 21M-pixel camera and LTE Cat4 150 DL/50 UL network bandwidth capabilities. With WIFI/BT/GNSS features, its high level of integration will greatly reduce customers' overall design cost during product development. It will also reduce the design difficulty of radio frequency components. In terms of software, it supports the Android operating system. Customers can carry out secondary software development based on their own scenario needs so as to accelerate time to market.



<b>Size</b>	44.1*45.6*2.8mm
<b>Data Transmission</b>	150Mbps(DL)/ 50Mbps(UL)
<b>Band</b>	LTE-FDD B1/B3/B5/B8 LTE-TDD B34/B38/B39/B40/B41 UMTS/HSD-PA/HSPA+ B1/B8 TD-SCDMA B34/B39 GSM/GPRS/EDGE B3/B8
<b>Certification</b>	RoHS (TBD)
<b>Application Scenarios</b>	Vehicle Tracking /OBD /Vehicle DVR/T-Box



## In-Vehicle Entertainment Central Control Unit

With the prosperous development of the automotive industry and the transport industry, in-vehicle infotainment system is expected to become a highlight of future vehicles, providing the most useful traffic information and entertainment service anywhere anytime, including navigation, video and audio streaming, and network connectivity. More and more automakers believe in-vehicle entertainment central control system will become one of their biggest selling points. It's not just listening to the radio and music, but also organically integrating in-vehicle audio and video, map navigation, network service and driver assistance into the in-vehicle entertainment central control system.

OEMs are facing enormous pressure in terms of the cost to transform their medium to low-end models into intelligent vehicles with interconnectivity. SIMCom has collaborated with its partners to develop highly integrated and cost-effective in-vehicle entertainment central control unit based on the SIM8950 platform, with support for WiFi hotspots, Bluetooth, navigation, music streaming and other features.

**Advantages:** ★ Higher speed transmission    ★ More amusement choices    ★ Conceive a better Life

## Smart Module

SIM8950LH is a multi-mode LTE module which is based on Qualcomm SDM450. It has a complete multi-band LTE-FDD/TDD/TD-SCDMA/DC-HSPA+/HSPA/UMTS/EVDO/EGDE/GPRS/GSM/GNSS with uplink rate up to 50 Mbps and downlink rate up to 150 Mbps. With powerful processor design, customers can benefit from these small, economical and efficient products. It's ideal for smart retail, smart payment, graphic display, etc.



<b>Size</b>	44.1*45.6*2.8mm
<b>Data Transmission</b>	150Mbps(DL)/ 50Mbps(UL)
<b>Band</b>	LTE-FDD B1/B3/B5/B8    LTE-TDD B34/B38/B39/B40/B41 UMTS/HSDPA/HSPA+ B1/B8    TD-SCDMA B34/B39
<b>Certification</b>	CCC
<b>Application Scenarios</b>	Smart Retail/Smart Payment/Smart Security



## Smart Payment

Alipay Box Dragonfly F1 is a device terminal that combines Alipay Cloud's face recognition function and IoT technology. SIM8950LH module has been used in this device for data transmission. Alipay Box Dragonfly F1 combines voice broadcast, password keypad, and advertising electronic poster, face recognition payment, scan code payment and other functions. Compared with traditional payment methods, with the addition of biometrics and facial recognition, smart payment has enabled convenient self-service marketing of "no cash, no mobile, online order and offline pickup", giving consumers a hands-free experience. With cashless payment, there is no need for consumers to withdraw money and for cashiers to give change. This will improve the efficiency of daily operations, avoid cash being stolen, eliminate the process of cash counting, and effectively help companies "reduce cost, increase efficiency and improve experience".



**Advantages:** ★ Support AI face recognition    ★ More convenient and faster    ★ Increased security

## NB-IoT Module

SIM7020 is a multi-band NB-IoT wireless communication module that adopts 42 PIN LCC packaging, which has a variety of hardware interfaces, including the serial port, GPIO, ADC and so on. Therefore, it's highly scalable, providing great convenience for product development. Besides, SIM7020 package is compatible with the SIM800C module, so it can shorten customers' R&D time as much as possible and speed up their launching of products on the market.



	SIM7000A/E/JC	SIM7020	SIM7060G
<b>Size</b>	24 X 24X 2.6mm	17.6 X 15.7 X 2.3mm	24 X 24X 2.6mm
<b>Data Transmission</b>	300Kbps(DL)/375Kbps(UL)	26.15Kbps(DL)/62.5Kbps(UL)	26.15Kbps(DL)/ 62.5Kbps(UL)
<b>Band</b>	A:LTE-FDD B2/B4/B12/B13(eMTC&NB-IoT) E:LTE-FDD B3/B5/B8/B20/B28 GPRS/EDGE 900/1800 MHz JC:B1/B3/B5/B8/B20/B26(no GPRS)	B1/B3/B5/B8/B20/B28	B1/B2/B3/B4/B5/B8/B12/ B13/B17/B18/B19/B20/B25/ B26/B28/B66/B70/B71
<b>Certification</b>	A:FCC/IC/PTCRB/GCF/RoHS/REACH E:CE/NCC/GCF/ACMA/RoHS/REACH JC:Telec/JATE/RoHS/REACH	CCC/TA/CTA/RoHS/REACH/ATEX	CE/FCC/RoHS/REACH

**Application Scenarios** Smart meters/Vending /Asset Tracking /Telematics



## Integrated Smart Tracker Management Platform

In order to solve the poor anti-theft technology which used in motorbikes and electric bikes and the difficulties in traffic control, an Integrated Smart Tracker Management Platform is developed. It can monitor motorbikes and electric bikes anytime and anywhere, effectively improving the rate of solving motorbike/electric bike theft cases, thereby reducing the motorbike/electric bike theft rate, realizing efficient control of motorbikes and electric bikes, and thus further improving the people's security and satisfaction.

The Integrated Smart Tracker Management Platform is supported by a low-power NB module+ MCU. The module is SIM7020 in SIMCom NB series. This platform has not only low power consumption, but also full network coverage. Meanwhile, the high-precision GPS function can locate vehicles in real time. In addition, the service life of the rechargeable lithium battery has been further prolonged. The industrial 3D G-sensor can monitor the vehicle status at any time.

- Advantages:**
- ★ Real time monitoring
  - ★ Decrease the motorbike/electric bike theft rate
  - ★ Improve the efficiency of transportation management



## Smart Groundwater Meter

Due to the complicated and terrible testing environments, it is not easy to do the measurement of groundwater. However, it is necessary to do it. Without the measurement, the level of groundwater cannot be known which can be a potential hazard, especially for coastal cities.

SIMCom has cooperated with a European water management company to develop a smart groundwater meter. It carries a SIMCom NB-IoT module SIM7020E. Its wide coverage gives the groundwater meter strong wireless communication capability, which enables the signal to reach underground monitoring points that are difficult to reach by radio and optical cables. The groundwater meter can provide hourly measurements and sends the data to the cloud platform in real time. By this way, people can have a clear understanding of the level of groundwater. If there is any abnormal phenomenon happens, people can take measures quickly.

- Advantages:**
- ★ Improve the accuracy of data largely
  - ★ Lower power consumption and can last longer
  - ★ Stronger signal and adapt to various environments
  - ★ Automatic monitoring, reduce labor cost



## Smart Waste Container

The Smart Waste Container is installed with an intelligent device, and this device has used SIMCom's SIM7020 module. This terminal is powered by a built-in lithium battery, which can last for 3 years. It uses ultrasonic identification technology to show the container's remaining capacity according to the volume of garbage already in the container. When the container is full, the terminal will automatically connect to the Internet of Things, show the container's real-time status on the website and push information to relevant staff, reminding them to collect garbage timely. There is also a smoke detector and temperature sensor. They can give early warnings against fire risks. Another amazing thing about it is the anti-theft function. The built-in anti-theft sensor will sound an alarm and push a warning message to the staff when abnormal motions are detected. There's also a voice prompt to automatically remind you of garbage sorting, in addition to full load warning and temperature measurement.

- Advantages:**
- ★ Full load warning, cut down labor cost
  - ★ Temperature measurement, reduce fires
  - ★ Voice prompts of garbage sorting, reduce environment contaminants



## IoT-based System for Real-time Monitoring of Bridge Displacement

Bridges are the veins of modern transportation. It is important to ensure not only smooth traffic under a bridge, but also safety of cars on it. However, any bridge is impacted by external factors during construction and service, which will lower its functionality and safety. Traditional monitoring methods are time consuming, labor intensive and delayed.

By embedding several sensors in a bridge, for example, those for monitoring bridge displacement, in combination with wireless communication technology, data about the bridge status can be timely transmitted to a platform for central processing. Upon any risk, an alarm is automatically sent to alert related parties for quick repairs to prevent accidents. Working with Jiangsu Zhonglan Intelligent Technology Co., Ltd., SIMCom has launched sensors for monitoring bridge displacement equipped with LPWA and 3G and 4G communication modules, for real-time monitoring of bridges. Different types of sensing equipment are embedding in a bridge, a data acquisition node/gateway and a real-time monitoring platform are established, the monitoring data are collected by SIM7020G, a communication module based on the low-power wide area network, and then transmitted to the acquisition node. SIM7600CE, a 4G module, transmits the data to the platform layer for storage, processing and analysis. Quick response is thus made possible based on the analysis results.

- Advantages:**
- ★ Real-time monitoring
  - ★ Report potential hazards
  - ★ Reduce labor input and improve monitoring accuracy

## GSM/GPRS Module

SIM800C is a complete GSM/GPRS solution in the LCC type, which can be embedded in the customer applications. SIM800C supports Quad-band 850/900/1800/1900MHz; it can transmit Voice, SMS and data information with low power consumption. With tiny size of 17.6\*15.7\*2.3mm, it can smoothly fit into slim and compact demands of customer design.



<b>Size</b>	17.6 X 15.7 X 2.3mm
<b>Data Transmission</b>	85.6 Kbps(DL)
<b>Band</b>	850/900/1800/1900MHz
<b>Certification</b>	CE/FCC/TA/RoHS/REACH/GCF/ACMA/CCC/CTA
<b>Application Scenarios</b>	Telematics /Fleet Management /Smart Meters/Security



## Smart Gas monitor

Gas has brought great convenience to our lives, but the leakage of gas is a hidden danger. Once it happens and is not processed in time, the consequences will be catastrophic. Real-time monitoring of gas can avoid gas accidents effectively.

One Air Monitor company recently developed a gas monitor with SIMCom's SIM800C module, which can be used to monitor the content of carbon monoxide, liquefied gas, propane, methane and other gases. It has the function of 7\*24 auto alarm. When the gas exceeds the standard, the monitor will beep and the alarm message will be sent to the mobile's App. In addition, the users also can receive the notification by SMS.

- Advantages:**
- ★ 7\*24 auto alarm
  - ★ Improve the handling efficiency of accidents
  - ★ Decrease the rate of gas leakage accidents effectively

## 4G Module

SIM7600E-H is a LCC module that supports such frequency bands as LTE-TDD/LTE-FDD/HSPA+/TD-SCDMA/EVDO, GSM/GPRS/EDGE and LTE CAT4 (downlink speed: 150Mbps). With stable performance, small size and high cost performance, it can achieve SMS and data transmission in low power consumption.



<b>Size</b>	30*30*2.9 mm
<b>Data Transmission</b>	150Mbps(DL)/ 50Mbps(UL)
<b>Band</b>	E:LTE-FDD:B1/B3/B5/B7/B8/B20 LTE:TDD:B38/B40/B41 WCDMA:B1/B5/B8 GSM:900/1800MHz
<b>Certification</b>	RoHS/REACH/CCC/TA/CTA
<b>Application Scenarios</b>	Smart Payment /Smart Industry/Smart Agriculture/PoC



## Sharing Coffee Machine

Unmanned retail has become the next big trend. How to meet the needs of consumers timely is a concern of all businesses. A coffee machine solution has launched in China, which includes a coffee machine and a small milk freezer. This smart coffee machine solution supports mobile payment. Consumers only need to touch the screen to choose what they want and paid by mobile phone, and then they can get a nice cup of coffee.

This smart coffee machine solution is primarily used in offices, convenience stores and other self-service settings. SIMCom's SIM7600A-H/SIM7600E-H modules have been used in the machine. SIM7600A-H/SIM7600E-H module can send data to the back-end business platform, allowing merchants to operate remotely. At the same time, it allows people to switch all the software features of SIM7600A-H (US version) or SIM7600E-H (EU version) coffee machine to ensure fast and seamless global business.

- Advantages:**
- ★ Self-service scanned payment, reduce labor cost
  - ★ Sharing economics
  - ★ Remote control to improve operation's efficiency



## Smart Elevator

Elevator has provided lots of convenience to us. However, it can have accidents and people can get injured accidentally. How to improve the safety of elevator has become a social concern.

A leading elevator enterprise has cooperated with SIMCom to create the smart elevator. SIMCom's 7600E-H, SIM7100X and SIM800C modules are well used in the smart elevator. Through the connection to the main control panel of the elevator, the original operation data of the elevator is collected. It can provide real-time monitoring and safety hazard warning. If there is an emergency, it will send the notification to people timely, so the efficiency of emergency rescue can be improved. Besides, the smart elevator also can achieve predictive maintenance analysis, fault warning and maintenance notice.

- Advantages:** ★ Reduce the rate of accident, improve safety    ★ Accurate fault warning  
★ Improve the maintenance of elevators    ★ Extended elevators' service life



## Smart charging pile

With the rapid development of new energy vehicles, charging piles will have a big prospect which will be used large-scale soon. The national standards stipulate that EV charging piles must have overvoltage/undervoltage protection, lightning protection, output short-circuit protection, leakage protection and overcurrent protection, etc., so every EV charging pile is equipped with a leakage protector. When an EV charging pile is in standby or in the charging process, it will trip out immediately to protect the user's personal safety in case of any electricity leakage. When the button is pressed in an emergency, power will be switched off instantly to protect personal and property safety. The device equipped with SIMCom SIM7600E-H module can monitor the condition of a charging pile in real time. For example, information of leakage and tripping will be sent to the platform for alarm processing immediately, so that effective "supervision + protection" can completely eliminate hidden safety hazards. Meanwhile, this module supports secondary development and remote upgrading. It uses the best encryption techniques. The operating temperature is between -40 C and +80 C. With a variety of software features, it supports a variety of network protocols and has a number of external interfaces, so developers can use it easily and quickly.

- Advantages:** ★ Remote monitoring to reduce cost, improve safety    ★ Automatic alarm to decrease cost  
★ Smart payment to provide convenience    ★ Save energy and keep sustainability



## 4G DTU

DTU (Data Transfer Unit) is a wireless terminal device that converts serial port data into IP data or IP data into serial port data for transmission through wireless communication networks.

Industrial DTU supports a variety of communication protocols, making large-scale networking easy to achieve. It also supports heart beat monitoring, with higher operation maintenance efficiency, at lower costs. M2M cloud platform management enables remote fault diagnosis, maintenance and upgrading without leaving home. With multiple interface options, it's compatible with all serial slave computers. Its industrial quality guarantees 7×24h stable transmission. Scientific appearance design makes the product small and lightweight, with no installation space requirements.

The industrial DTU adopts the SIMCom 4G module SIM7600E-H, which is a core component of DTU.

**Advantages:** ★ Achieving large-scale networking ★ A variety of communication protocols  
★ Remote fault diagnosis



## Smart Grid

SIMCom has cooperated with one leading electricity company, and its SIM7600E-H module has been successfully applied to the Distribution Automation System, helping realize the real-time monitoring and smart operation of electric power. When a fault occurs, the fault information is sent through the modules to the master station. Then the later identifies the fault point and the current condition according to the information received. At the same time, an alarm goes off to inform relevant staff to get to the scene immediately. Thanks to the information system and smart system, staff are able to find out the fault point quickly, which saves patrolling personnel and fault handling time, making power supply more reliable and stable.

**Advantages:** ★ Accurate points of faults ★ Reduce the handling time of faults  
★ Cut down the labor cost ★ Real-time data Accurate alarms and positioning