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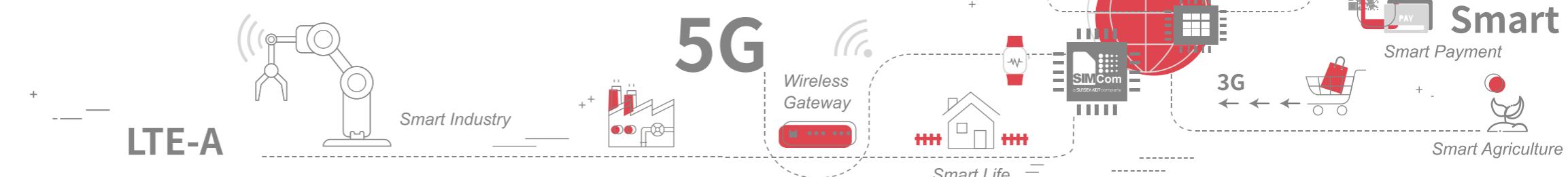
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MODULES FOR A CONNECTED WORLD

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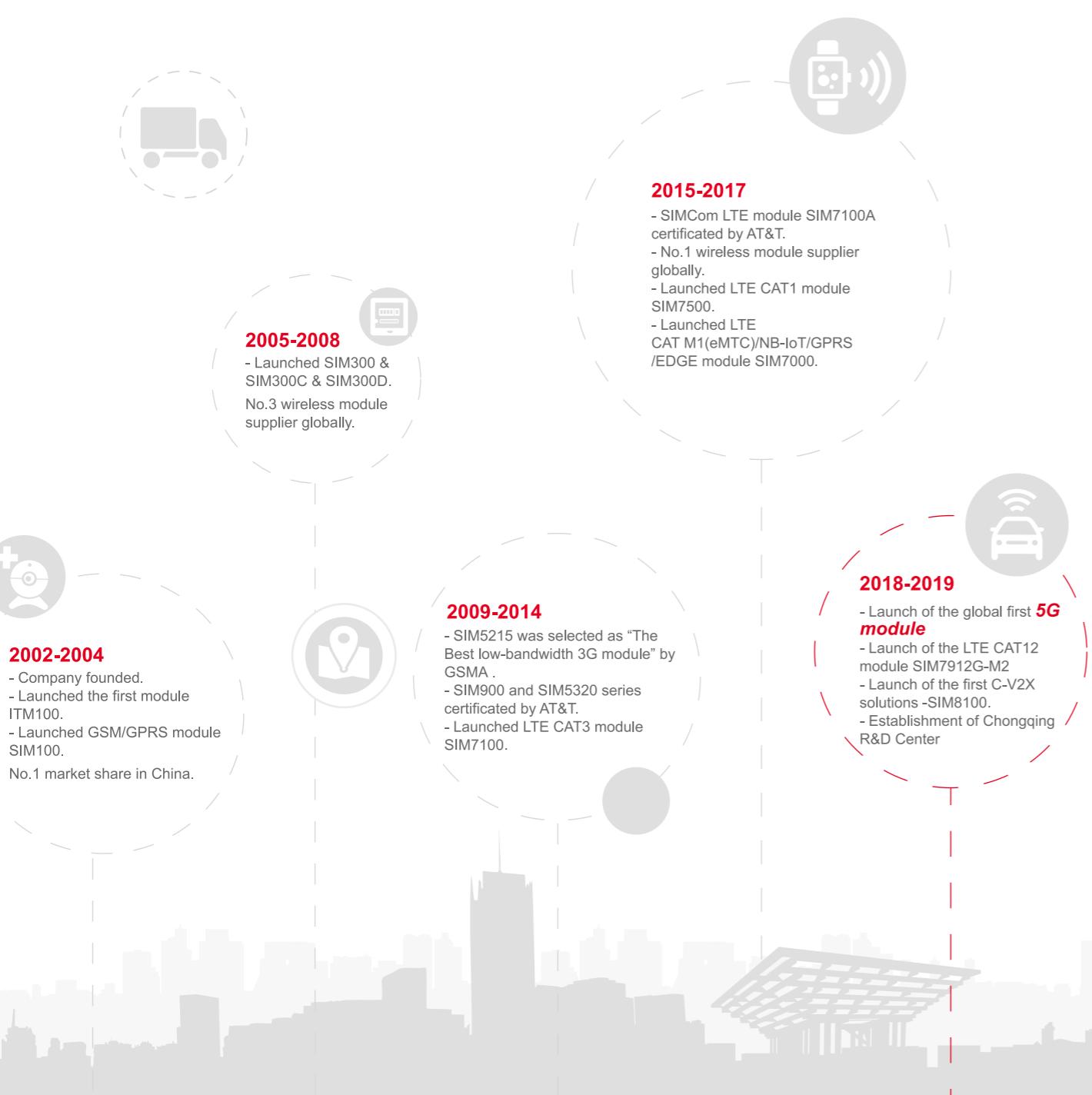




a SUNSEA AIOT company

About SIMCom

SIMCom Wireless Solutions Co.,Ltd, Holding subsidiary of SUNSEA AIOT (002313.SZ), It is global leading Machine-to-Machine (M2M) wireless modules and solutions supplier, Since established in 2002, SIMCom has been fully committed to provide a variety of wireless technology platform modules and terminal level solutions around the world, such as GSM/GPRS/EDGE, WCDMA/HSPA/HSPA+, CDMA 1xRTT/EV-DO, LTE-M(CAT-M1), NB-IoT, LTE, LTE-A, 5G, Smart cellular communication and GPS/GLONASS/BEIDOU satellite positioning technology. According to the latest M2M report from ABI Research Inc., a well-known U.S. Market Research company, SIMCom modules has been the world leader for three consecutive years.



| LPWA Module

Technology	eMTC/NB-IoT/GSM	NB-IoT	NB-IoT&GSM
Product	SIM7000X	SIM7020X	SIM7050G
Picture			
Package	LCC, 68PIN	LCC, 42PIN	LCC, 68PIN
Dimensions(mm)	24.0*24.0*2.6	17.6*15.7*2.3	24.0*24.0*2.6
Weight(g)	3.0	1.3	TBD
- A (North America)	LTE-FDD: B2/B4/B12/B13 (eMTC &NB-IoT)		
- E(Europe/ Africa/Austral- ia/Southeast Asia)	LTE-FDD: B3/B5/B8/B20/B28 GSM: 900/1800MHz	LTE-FDD: B1/B3/B5/B8/B20/B28	
Frequency Bands(MHz)	- JC(Japan) - G(Global)	LTE-FDD: B1/B3/B5/B8/B18/B19/B26 (no GPRS) LTE-FDD NB-IoT & eM: B1/B2/B3/B4/B5/ B8/B12/B13/B17/B18/B19/B20/B25/B26/B28 LTE-TDD eMTC: B39 GSM: 850/900/1800/1900MHz	LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/ B18/B19/B20/B25/B26/B28/B66/B70/B85* LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/ B17/B18/B19/B20/B25/B26/B28/B66/B70/B85* GSM: 850/900/1800/1900MHz
GNSS	○		
Temperature	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C
Electrical Features			
Supply Voltage Range	3.0V~ 4.3V	2.1V-3.6V	3.4V-4.2V
Power Consumption	PSM Sleep Max Power	9uA@PSM 1.2mA@ LTE 138mA@ B5	3.4uA@PSM 0.4mA 114mA@ B5
Network Registration Time(s)	12(Preferred band)	12(Preferred band)	TBD
Receive Sensivity	-108dB@eMTC	-126dB@NB-IoT 15KHz	-126dB@NB-IoT 15KHz
Data Transfer			
LTE CAT.NB(Kbps)	34(DL)/66(UL)	26.15(DL)/62.5(UL)	136(DL)/150(UL)
LTE CAT.M1(Kbps)	300(DL)/375(UL)		
EDGE(Kbps)	236.8(DL)/236.8(UL)		
GPRS(Kbps)	85.6(DL)/85.6(UL)		85.6(DL)/85.6(UL)
SMS	●	●	●
Software Features			
Protocols	TCP/UDP/LWM2M/COAP/MQTT /FTP/HTTP/TLS/DTLS/NTP/Ayla Cloud*	TCP/UDP/LWM2M/- COAP/MQTT/HTTP/HTTPS/TLS/DTLS/DNS/NT- P/PING/Ayla Cloud*	TCP/UDP/LWM2M/COAP/MQTT/HTTP/ HTTPS/TLS/DTLS/DNS/NTP/PING/OneNET/ 电信云
VoLTE	●		
Embedded AT	●	●	●
FOTA	●	●	●
TLS	●	●	●
USB Driver	Microsoft Windows 2000/XP/Vista/Win7/Win8/Win10/Linux		
Firmware Upgrade	USB	UART	UART
Interfaces			
UART	Full Function Uart Flow Control Uart	● ●	● ●
USB	●	●	
PCM	●		
Status Indicator	Network&Power ON-OFF status	Network&Power ON-OFF status	
GPIO	At Least 5*GPIO	At Least 2*GPIO	At Least 5*GPIO
SPI	○		
I2C	●		
Certification			
Certification	A: FCC/IC/PTCRB/GCF/RoHS/REACH C: CCC/TA/CTA/RoHS/REACH E: CE/NCC/GCF/ACMA/RoHS/REACH JC: Telec/JATE/RoHS/REACH G: RoHS/REACH/CE/FCC/GCF	E:CE/GCF*/RoHS/REACH/ATEX G:CE*/FCC*/GCF*/PTCRB*/RoHS/ REACH/ATEX	CE/RoHS/REACH
Carrier Certification	A: AT&T/Verizon C: China Mobile/CHINA TELECOM/China Unicom E: Deuts Telecom/Telstra/MDA		
Typical Applications	Home Security and Automation, Telematics, Smart Meters, Vending, Fleet Management, Asset Tracking		

○ : Optional
* : Planning

| LPWA Module

Technology	NB-IoT&GNSS	eMTC&NB-IoT&GSM	eMTC & NB-IoT
Product	SIM7060G	SIM7070G	SIM7080G
Picture			
Package	LCC, 68PIN	LCC+LGA, TBD	LCC+LGA,77PIN
Dimensions(mm)	24.0*24.0*2.6	24*24*TBD	17.6*15.7*2.4
Weight(g)	3.0	TBD	TBD
Frequency Bands(MHz)	- A (North America) - E(Europe/Africa/Australia/Southeast Asia) - JC(Japan) - G(Global)	LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B17/B18/B19/B20/B25/B26/B28/B66/B70/B85* LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B14/B17/B18/B20/B25/B26/B27/B28/B31/B66/B85 LTE-TDD: B39 GSM:800/900/1800/1900MHz	LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B27/B28/B31/B66/B85 LTE-TDD: B39
GNSS	•	-40°C~+85°C	-40°C~+85°C
Temperature	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C
Electrical Features			
Supply Voltage Range	2.1V-3.6V	TBD	2.4V-4.8V
Power Consumption	PSM 3.4uA@PSM Sleep 0.4mA Max Power 114mA@ B5	TBD	TBD
Network Registration Time(s)	12(Prefered band)		
Receive Sensivity	-126dB@NB-IoT 15KHz		
Data Transfer			
LTE CAT.NB(Kbps)	26.15(DL)/62.5(UL)	136(DL)/150(UL)	136(DL)/150(UL)
LTE CAT.M1(Kbps)		589(DL)/1119(UL)	589(DL)/1119(UL)
EDGE(Kbps)			
GPRS(Kbps)		Class12	
SMS	•		•
Software Features			
Protocols	TCP/UDP/LWM2M/COAP/MQTT/HTTP/HTTPS/TLS/DTLS/DNS/NTP/PING/Ayla Cloud*	TCP/UDP/HTTP/HTTPS/TLS/DTLS/PING/L-WM2M/COAP/MQTT/Ayla Cloud	TCP/UDP/HTTP/HTTPS/TLS/DTLS/PING/L-WM2M/COAP/MQTT/Ayla Cloud
VoLTE	•		•
Embedded AT	•	•	•
FOTA	•	•	•
TLS	•	•	•
USB Driver			
Firmware Upgrade	UART	UART	UART
Interfaces			
UART	Full Function Uart Flow Control Uart	• •	• •
USB	•	•	•
PCM			•
Status Indicator	Network&Power ON-OFF status		
GPIO	At Least5*GPIO	TBD	At Least 4*GPIO
SPI	•		•
I2C	•	•	•
Certification	CE*/RoHS*/REACH	CE/FCC/GCF/PTCRB/RoHS/REACH	CE/FCC/GCF/PTCRB/RoHS/REACH
Carrier Certification			
Typical Applications	Home Security and Automation, Telematics, Smart Meters, Vending, Fleet Management, Asset Tracking		

○ : Optional
* : Planning

| LTE-A Module

Technology	LTE CAT6	LTE CAT12
Product	SIM7906E-M2/SIM7906E-PCIE	SIM7912G-M2
Picture	 	
Package	M.2/PCIe	M.2
Dimensions(mm)	42.0*30.0*2.3	42.0*30.0*2.3
Weight(g)	6.1	6.1
Frequency	LTE - FDD B1/B3/B5/B7/B8/B20/B28/B32 LTE - TDD B38/B40/B41 DL 2XCA B1+B1/B5/B8/B20/B28; B3+B3/B5/B7/B8/B20/B28; B7+B5/B7/B8/B20/B28; B20+B32; B38+B38; B40+B40; B41+B41;(Note:B32 is only for secondary component carrier)	B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66
LTE	DL 3XCA N/A UL 2XCA N/A	DL inter-band 3CA: B1+B3+B7;B1+B3+B19;B1+B3+B20;B2+B4+B5;B2+B4+B13;B2+B5+B30; B2+B12+B30;B2+B29+B30;B3+B7+B20;B3+B7+B28;B4+B5+B30; B4+B12+B30;B4+B29+B30;B5+B66+B2;B13+B66+B2
WCDMA	B1/B3/B5/B8	B1/B2/B3/B4/B5/B8/B19
GNSS	BeiDou/GPS/GLONASS	BeiDou/GPS/GLONASS
Temperature	-40°C~+85°C	-40°C~+85°C
Electrical Features		
Supply Voltage Range	3.135V~ 4.4V, 3.3V(typ)	3.135V~ 4.4V, 3.3V(typ)
Power Consumption (sleep)(mA)	TBD	TBD
Data Transfer		
LTE CAT 6	300Mbps(DL)/50Mbps (UL)	
LTE CAT 12		600Mbps(DL)/100Mbps (UL)
Software Features		
Protocol	TCP/IP/IPv4/IPv6/Multi-PDP/FTP/FTPS /HTTP/HTTPS/DNS	TCP/IP/IPv4/IPv6/Multi-PDP/FTP/FTPS /HTTP/HTTPS/DNS
TLS	SSL3.0/TLS1.0/TLS1.2	SSL3.0/TLS1.0/TLS1.2
FOTA	•	•
Android RIL	Android 2.3/4.0/5.0/6.0/7.0	Android 2.3/4.0/5.0/6.0/7.0
USB Driver	Microsoft Windows2000/XP/Vista/Win7/Win8/Win10/Linux /Android	Microsoft Windows2000/XP/Vista/Win7/Win8/Win10/Linux /Android
Firmware Upgrade	USB	USB
Interface		
USB3.0	*1	*1
PCIE	*1	*1
PCM	*1	*1
GPIO	*1	*1
I2C	*1	*1
Antenna	*3	*3
Certification		
Certification	CE	
Typical Applications	Video Surveillance, Gateway, Industrial PDA, Router	

LTE Module

Technology	LTE CAT4	LTE CAT3
Product	SIM7600X-H	SIM7100X
Picture		
Package	LCC, 87PIN	LCC, 87PIN
Dimensions(mm)	30.0*30.0*2.9	30.0*30.0*2.9
Weight(g)	5.7	5.7
-A(North America(AT&T))	LTE-FDD: B2/B4/B12 WCDMA: B2/B5	LTE-FDD: B2/B4/B5/B17 WCDMA: B2/B5
-V(North America (Verizon))	V: LTE-FDD B2/B4/B5/B13	
Frequency Bands	-E(Europe/Middle East/Africa/Korea /Thailand) LTE-FDD: B1/B3/B5/B7/B8/B20 LTE-TDD: B38/B40/B41 WCDMA: B1/B5/B8 GSM: 900/1800MHz	LTE-FDD: B1/B3/B7/B8/B20 LTE-TDD: B38/B40 WCDMA: B1/B8 GSM: 900/1800 MHz
-SA(New Zealand /Australia/South America)	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE-TDD: B40 WCDMA: B1/B2/B5/B8 GSM: 850/900/1800/1900MHz	
-JC/JE(Japan)	JC: LTE-FDD: B1/B3/B8/B18/B19/B26 WCDMA: B1/B6/B8 GSM: 900/1800 MHz JE: LTE-FDD: B1/B8 WCDMA: B1/B8 GSM: 900/1800 MHz	JC: LTE-FDD: B1/B3/B8/B18/B19 LTE-TDD: B41 WCDMA: B1/B6/B8 GSM: 900/1800 MHz JE: LTE-FDD: B1/B8 WCDMA: B1/B8 GSM: 900/1800 MHz
GNSS	○	○
Temperature	-40°C ~ +85°C	-40°C ~ +85°C
Electrical Features		
Supply Voltage Range	3.4V~ 4.2V	3.4V~ 4.2V
Power Consumption(mA)	2.8@GSM,BS_PA_MFRMS=2 3.3@WCDMA, DRX=9 4.6@LTE	4.3@GSM,BS_PA_MFRMS=2 2.1@WCDMA, DRX=9 1.9@LTE
Data Transfer		
LTE(Mbps)	150(DL)/50(UL)	100(DL)/50(UL)
WCDMA/HSPA+(Mbps)	42(DL)/5.76(UL)	42(DL)/5.76(UL)
GPRS/EDGE(Kbps)	236.8(DL)/236.8(UL)	236.8(DL)/236.8(UL)
SMS	•	
Software Features		
Protocol	TCP/IP/IPv4/IPv6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/SMTP/SMTPS/DNS	TCP/IP/IPv4/IPv6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/SMTP/SMTPS/DNS
TLS	•	•
File System	•	•
Audio Record/Play	#	#
TTS	#	#
DTMF	#	#
LBS	•	•
FOTA	•	•
Jamming Detection	•	○
Android RIL	Android 2.3/4.0/5.0/6.0/7.0	Android 2.3/4.0/5.0/6.0/7.0
USB Driver	Microsoft Windows2000/XP/Vista/Win7/Win8/Win10/Linux/Android	Microsoft Windows2000/XP/Vista/Win7/Win8/Win10/Linux/Android
WWAN	•	
ECM	•	•
MBIM	Win8/Win10	Win8/Win10
NDIS	Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10
Embedded AT	•	
Firmware Upgrade	USB	USB
Interfaces		
SIM Card	1.8V/3.0V	1.8V/3.0V
UART	•	•
USB	•	•
PCM	#	#
ADC	•	•
GPIO	At Least 4*GPIO	At Least 4*GPIO
SD Card	•	•
SPI	○	•
I2C	•	•
Diversity Receiver	•	•
Certification		
Certification	A: FCC/PTCRB/RoHS/REACH/IC E: CE-RED/RoHS/REACH JC: Telec/JATE/RoHS/REACH SA: CE-RED/ACMA/RoHS/REACH V: FCC/GCF/RoHS/REACH	A: FCC/PTCRB/IC/RoHS/REACH E: CE/CE-RED/RoHS/REACH/GCF* JC/JE: Telec/JATE/RoHS/REACH
Carrier Certification	A: AT&T/Rogers*/Bell*/Telus* E: T-mobile* V: Verizon	A: Rogers/AT&T E: KCT JC: Docomo/KDDI JE: Softbank
Typical Applications	Fleet Management, Telematics, Security, Tracking, Agriculture, Smart Meters, Router, Gateway	

○ : Optional

* : Planning

#: Only Supported in Telematics Version

LTE Module

Technology	LTE CAT1	
Product	SIM7600X	SIM7500X
Picture		
Package	LCC, 87PIN	LGA, 56PIN
Dimensions(mm)	30.0*30.0*2.9	24.0*27.0*2.75
Weight(g)	5.7	4
-A(North America(AT&T))	LTE-FDD: B2/B4/B12 WCDMA: B2/B5	LTE-FDD: B2/B4/B12 WCDMA: B2/B5
-V(North America (Verizon))	V: LTE-FDD B2/B4/B5/B13	LTE-FDD B4/B13
Frequency Bands	-E(Europe/Middle East/Africa/Korea /Thailand) LTE-FDD: B1/B3/B5/B7/B8/B20 LTE-TDD: B38/B40/B41 WCDMA: B1/B5/B8 GSM: 900/1800MHz	LTE-FDD: B1/B3/B5/B7/B8/B20 LTE-TDD: B38/B40/B41 WCDMA: B1/B5/B8 GSM: 900/1800 MHz
-SA(New Zealand /Australia/South America)	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE-TDD: B40 WCDMA: B1/B2/B5/B8 GSM: 850/900/1800/1900MHz	LTE-FDD: B1/B3/B5/B7/B8/B28 WCDMA: B1/B5
-JC/JE(Japan)		JC: LTE-FDD: B1/B18/B19/B26 JE: LTE-FDD: B1/B3/B8
GNSS	○	○
Temperature	-40°C ~ +85°C	-40°C ~ +85°C
Electrical Features		
Supply Voltage Range	3.4V~ 4.2V	3.4V~ 4.2V
Power Consumption(mA)	2.8@GSM,BS_PA_MFRMS=2 3.3@WCDMA, DRX=9 4.6@LTE	2.8@GSM,BS_PA_MFRMS=2 3.3@WCDMA, DRX=9 4.6@LTE
Data Transfer		
LTE(Mbps)	10(DL)/5(UL)	10(DL)/5(UL)
WCDMA/HSPA+(Mbps)	42(DL)/5.76(UL)	42(DL)/5.76(UL)
GPRS/EDGE(Kbps)	236.8(DL)/236.8(UL)	236.8(DL)/236.8(UL)
SMS	•	•
Software Features		
Protocol	TCP/IP/IPv4/IPv6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/DNS	TCP/IP/IPv4/IPv6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/DNS
TLS	•	•
File System	•	•
Audio Record/Play	#	#
TTS	#	#
DTMF	#	#
LBS	•	•
FOTA	•	•
Jamming Detection	•	•
Android RIL	Android 2.3/4.0/5.0/6.0/7.0	Android 2.3/4.0/5.0/6.0/7.0
USB Driver	Microsoft Windows2000/XP/Vista/Win7/Win8/Win10/Linux/Android	Microsoft Windows2000/XP/Vista/Win7/Win8/Win10/Linux/Android
WWAN	•	•
ECM	•	•
MBIM	Win8/Win10	Win8/Win10
NDIS	Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10
Embedded AT		
Firmware Upgrade	USB	USB
Interfaces		
SIM Card	1.8V/3.0V	1.8V/3.0V
UART	•	•
USB	•	•
PCM	#	#
ADC	•	•
GPIO	At Least 4*GPIO	At Least 2*GPIO
SD Card	•	
SPI	○	
I2C	•	•
Diversity Receiver	•	•
Certification		
Certification	A: FCC/PTCRB/RoHS/REACH/IC E: CE-RED/RoHS/REACH JC/JE: Telec/JATE/RoHS/REACH SA: CE-RED/ACMA/RoHS/REACH V: FCC/GCF/RoHS/REACH	A: FCC/PTCRB/RoHS/REACH/IC* E: CE-RED/RoHS/REACH JC/JE: Telec/JATE/RoHS/REACH V: FCC/GCF/RoHS/REACH SA: CE-RED/ACMA/NCC/RoHS/REACH
Carrier Certification	A: AT&T/Rogers*/Bell*/Telus* E: T-mobile* V: Verizon	A: Rogers/AT&T E: KCT JC: Docomo/KDDI JE: Softbank
Typical Applications	Fleet Management, Telematics, Security, Tracking, Agriculture, Smart Meters, Router, Gateway	

○ : Optional

* : Planning

#: Only Supported in Telematics Version

Smart Module

Technology	Smart Module		
Product	SIM8905X	SIM8950E	SIM8980E
Picture			
Package	LCC+LGA 210PIN	LCC+LGA 232PIN	LCC+LGA 348PIN
Dimensions(mm)	40.5*40.5*2.8	44.1*45.6*2.8	44.1*45.6*2.9
Weight(g)	10.6	12.5	13.8
-A(North America)	LTE-FDD: B2/B4/B5/B7/B12/B13/B17/B25/B26 LTE-TDD: B41 WCDMA: B1/B2/B4/B5/B8 EDGE/GPRS/GSM: 850/900/1900 MHz		
-E(Europe)	LTE-FDD: B1/B3/B5/B7/B8/B20 LTE-TDD: B38/B40/B41 WCDMA: B1/B2/B5/B8 GSM: 850/900/1800/1900 MHz	LTE-FDD: B1/B3/B5/B7/B8/B20 LTE-TDD: B38/B40/B41 WCDMA: B1/B2/B5/B8 GSM: 850/900/1800/1900 MHz	LTE-FDD: B1/B3/B5/B7/B8/B20 LTE-TDD: B38/B40/B41 WCDMA: B1/B2/B5/B8 GSM: 850/900/1800/1900 MHz DL 2XCA: 1A+3A/5A/7A/8A/20A/41A,3A+3A/5A/7A/8A/30A/4 1A,5A+5A/7A,7A+7A/8A/20A,41A+41A,1C,3C,5B, 7C,8B,38C,40C,41C
GNSS	BeiDou/GPS/GLONASS	BeiDou/GPS/GLONASS	BeiDou/GPS/GLONASS
WLAN	2.4G/5G(o), 802.11 b/g/n/a(o)	2.4G/5G, 802.11a/b/g/n/ac	2.4G/5G, 802.11a/b/g/n/ac
Application Processor	Quad ARM Cortex-A7 cores up to 1.1 GHz	Octa ARM Cortex-A53 cores up to 1.8GHz	Octa Kryo Gold cores up to 2.2GHz
Memory	1GB LPDDR3 RAM +8GB eMMC Flash	2GB LPDDR3 RAM +16GB eMMC Flash	4GB LPDDR4X RAM +64GB eMMC Flash
Supply Voltage Range	3.4V~ 4.4V	3.4V~ 4.4V	3.4V~ 4.4V
Temperature	-25°C ~ +75°C	-25°C ~ +75°C	-25°C ~ +75°C
Data Transfer			
LTE(Mbps)	LTE CAT 4 - 150(DL)/50(UL)	LTE CAT 4 - 150(DL)/50(UL)	LTE CAT6 - 300(DL)/50(UL)
WCDMA/HSPA/HSPA+(Mbps)	42.2(DL)/11.5(UL)	42.2(DL)/11.5(UL)	42.2(DL)/11.5(UL)
TD-SCDMA(Mbps)	2.8(DL)/2.2(UL)	2.8(DL)/2.2(UL)	2.8(DL)/2.2(UL)
CDMA EV-DO(Mbps)	3.1(DL)/1.8(UL)	3.1(DL)/1.8(UL)	3.1(DL)/1.8(UL)
CDMA 1xRTT(Kbps)	153.6(DL)/153.6(UL)	153.6(DL)/153.6(UL)	153.6(DL)/153.6(UL)
GPRS(Kbps)	Max 107(DL)/85.6(UL)	Max 107(DL)/85.6(UL)	Max 107(DL)/85.6(UL)
EDGE(Kbps)	Max 296(DL)/236.8(UL)	Max 296(DL)/236.8(UL)	Max 296(DL)/236.8(UL)
Media			
Display	4-lane MIPI_DSI HD(720P), 60fps	4-lane MIPI_DSI * 2 FHD(1920), 60fps	4-lane MIPI_DSI * 2 2560 × 1600 at 60 fps + 1080p at 30 fps Miracastor 4K30 DP 10-bit
Camera	MIPI_CSI * 2 Primary camera: 2-lane MIPI_CSI, up to 8MP Secondary camera: 1-lane MIPI_CSI, up to 5MP	MIPI_CSI * 2 Primary camera: 4-lane MIPI_CSI, up to 24MP Secondary camera: 2-lane MIPI_CSI, up to 8MP	MIPI_CSI * 3 or 4 Primary camera: 4-lane MIPI_CSI, up to 24MP Secondary camera*2: 4-lane MIPI_CSI, up to 16MP (Or Secondary camera*3: 4-lane,2-lane,1-lane)
Video Performance	Encode: H.264 BP/MP – 720p, 30 fps; MPEG-4 SP/H.263 P0 – WVGA, 30 fps; VP8 – WVGA, 30 fps; Decode: H.264 BP/MP/HP – 1080p, 30 fps; MPEG-4 SP/ASP – 1080p, 30 fps; DivX 4x5/x6 – 1080p, 30 fps; H.263 P0 – WVGA, 30 fps; VP8 – 1080p, 30 fps; (HEVC) H.265 MP 8 bit – 1080p, 30 fps;	Encode: 1080p60, H.264, H.265, VP8 Decode: 1080p60, H.264, H.265, VP8, VP9 Wireless Display (Decode+Encode) : 1080p60 Dec + 1080p30 Enc	Encode: 4K30 HEVC/H.264/VP8/MPEG4 Decode: 4K30 8-bit: H.264/VP8/VP9 4K30 10-bit: HEVC Wireless Display (Decode+Encode) : 1080p60 Dec + 1080p30 Enc
Analog Audio	2 Inputs&3 Outputs	2 Inputs&4 Outputs	3 Inputs&4 Outputs
Audio Codec	G711;Raw PCM;QCELP;EVRC; EVRC-B;EVRC-WB;AMR-NB;AMR-WB; GSM-EFR;GSM-FR;GSM-HR MP3; AAC,AAC+,eAAC;AMR-NB,-WB,G.711,WMA 9/10 Pro	G711;Raw PCM;QCELP;EVRC;EVRC-B;EVRC-WB; AMR-NB;AMR-WB;GSM-EFR;GSM-FR; GSM-HR MP3;aacPlus;eAAC;AMR-NB;AMR-WB; G.771 Windows Media Audio(WMA) 9/10 Pro	EVRC, EVRC-B, EVRC-WB; G.711, G.729/A/B; GSM-FR, GSM-EFR, GSM-HR;AMR-NB,AMR-WB, AMR-eAMR, AMR-BeAMR; MP3; AAC; He-AAC v1,v2; WMA 9/Pro; Dolby AC-3, eAC-3, DTS-HD, FLAC, APE, ALAC, AIFF
Interfaces			
UART	*2	*4	*5
USB	USB2.0	USB3.0/2.0/Type-C/OTG	USB3.0*2(high-speed); OTG
UIM	*2	*2	*2
GPIO	At Least 21*GPIO	At Least 22*GPIO	At Least 30*GPIO
SD Card	•	•	*1(support SD3.0,4-bit SDIO)
SPI	•	•	*2
I2C	*3	*3	*5
ADC	*1	*1	*2
Motor Drive	*1	○	●
WLED Sink		○	●
Flash Drive		○	●
Antenna	Main&Diversity&GNSS&Wi-Fi/BT ANT	Main&Diversity&GNSS&Wi-Fi/BT ANT	Main&Diversity&GNSS&Wi-Fi/BT
Software Features			
Operating System	Android 5.1/7.1/8.1	Android 7.1/8.1	Android 8.1/9.1
USB Driver	Microsoft Windows 2000/XP/Vista/Win7/Win8/Win10/Linux	Microsoft Windows 2000/XP/Vista/Win7/Win8/Win10/Linux	Microsoft Windows 2000/XP/Vista/Win7/Win8/Win10/Linux
Bluetooth	BT 2.1+EDR/3.0/4.1 LE	BT 2.1+EDR/3.0/4.1 LE/4.2 BLE	BT 5.x
Dual LCD		●	●
DSDS	•	•	•
Charge Function	•	○	●
Firmware Upgrade	USB/OTA/TF card	USB/OTA/TF card	USB/OTA/TF card
Certification	A: RoHS/REACH/FCC/PTCRB/IC/AT&T* E: CE/RoHS/REACH	RoHS/REACH/CCC*/CE*	RoHS/REACH/CCC
Typical Applications	POS, Security, Networking, Telematics,Retail		

○ : Optional
* : Planning

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Automotive Module

Technology	Automotive Module	
Product	SIM7800E	
Picture		
Package	LGA, 282 PIN	LGA, 189 PIN
Dimensions(mm)	34.0*40.0*3.1	30.0*32.0*2.75
Weight(g)	7.8g±0.2g	5.8
Frequency Bands	LTE-FDD: B1/B3/B5/B7/B8/B20 LTE-TDD: B38/B40/B41 WCDMA: B1/B5/B8 GSM: 900/1800 MHz	B47, B46D
GNSS	BeiDou/GPS/GLONASS/Galileo/QZSS	BeiDou/GPS/GLONASS/Galileo
Bluetooth	BLE4.2(with W59)	N/A
Temperature	-40°C ~ +85°C	-40°C ~ +85°C
Electrical Features		
Supply Voltge Range	3.3V~ 4.3V	4.75V~ 5.25V
Power Consumption (sleep)(mA)	1.8mA@GSM,BS_PA_MFRMS=2 3.3mA@WCDMA, DRX=9 1.84mA@LTE-FDD	TBD
Data Transfer		
GPRS Slot	class 12	
LTE(Mbps)	LTE CAT 4: 150 (DL)/50(UL)	
WCDMA/HSPA/HSPA+(Mbps)	42.2(DL)/11.5(UL)	3GPP Release 14 C-V2X PC-5 mode
TD-SCDMA(Mbps)	2.8(DL)/2.2(UL)	
CDMA EV-DO(Mbps)	3.1(DL)/1.8(UL)	
CDMA 1xRTT(Kbps)	153.6(DL)/153.6(UL)	
GPRS(Kbps)	Max 107(DL)/85.6(UL)	
EDGE(Kbps)	Max 296(DL)/236.8(UL)	
Media		
Protocol	TCP/IP/IPv4/IPv6/MultiPDP/FTP/FTPS/HTTP/ HTTPS/DNS/SMTP/ SMTSP/NTP/PING/SSL	PC5
eCall	•	N/A
Open Linux	•	N/A
Multi-APN	•	N/A
SDIO	•	N/A
UART2	•	N/A
FOTA	•	N/A
Temperature Control	•	N/A
TLS	•	N/A
File System	•	N/A
Audio Record/Play	•	N/A
TTS	•	N/A
DTMF	•	N/A
LBS	•	N/A
ECM	•	N/A
QMI_WWW Driver	•	N/A
RIL Driver	Android 2.3/4.0/5.0/6.0/7.0	N/A
Security	SELinux/Trustzone/Secure boot	N/A
Routing policy	4G,WIFI and Ethernet port	N/A
Android RIL	Android 2.4/4.0/5.0/6.0/7.0	N/A
USB Driver	Microsoft Windows 2000/XP/Vista/Win7/Win8/Win10/ Linux /Android	N/A
NDIS/RNDIS	•	N/A
Embedded AT	•	N/A
Firmware Upgrade	USB /FOTA 2.4G/5G(with W59)	N/A
Wi-Fi		N/A
Interfaces		
SGMII	10M/100M/1000M Eherent	N/A
UART	3*UART	2*UART
USB	1*2.0	1*3.0, 1*2.0
ADC	3*ADC	N/A
OTG	•	N/A
HSIC	•	N/A
PCIE		PCIe Gen 2 (PCIe GEN1 compatible)
PCM	1*I2S	N/A
Analog Audio	○	N/A
GPIO	5*GPIO	•
SDIO	SDIO3.0 (200MHz Max)	N/A
SD Card	SD3.0 (128G Max)	8-bit EMMC 4.51 at up to 100MHz SDR(1.8V) or 4-bit dual voltage SD 3.0 up to 50MHz DDR(1.8/2.85V),1-bit or 4-bit SD card up to 200MHz SDR mode.
SPI	1*SPI	1*SPI
I2C	1*I2C	N/A
Antenna	1>Main&1*Diversity&1*GNSS	2*V2X&1*GNSS
Certification	CE*RoHS*REACH*/GCF*	TBD
Typical Applications	Vehicle Tracking, OBD,Vehicle DVR, T-BOX	

○ : Optional
* : Planning

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| WCDMA/HSPA/HSPA+ Module

Technology	WCDMA/HSPA	WCDMA/HSDPA	WCDMA/HSPA
Product	SIM5300E/EA	SIM5320X	SIM5360X
Picture			
Package	LCC, 68PIN	LCC, 80PIN	LCC, 82PIN
Dimensions(mm)	24.0*24.0*2.4	30.0*30.0*2.9	30.0*30.0*2.9
Weight(g)	3.0	5.6	5.7
-A(North America)		WCDMA: B2/B5 GSM: 850/900/1800/1900MHz	WCDMA: B2/B5 GSM: 850/900/1800/1900MHz
-E(China/Europe)	WCDMA: B1/B8 GSM: 900/1800MHz	WCDMA: B1/B8 GSM: 850/900/1800/1900MHz	WCDMA: B1/B8 GSM: 850/900/1800/1900MHz
Frequency Bands	-J/JD/JE (Japan)	JE: WCDMA: B1/B8 GSM: 850/900/1800/1900MHz	JD: WCDMA: B1/B6(B5) GSM: 850/900/1800/1900MHz
-J(South Asia/Australia)		J: WCDMA: B1/B5(B6) GSM: 850/900/1800/1900MHz	J': WCDMA: B1/B6(B5) GSM: 850/900/1800/1900MHz
GNSS		GPS	GPS/GLONASS
Temperature	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
Electrical Features			
Supply Voltage Range	3.4V~4.4V	3.4V~4.2V	3.4V~4.2V
Power Consumption(mA)	0.96@GSM, DRX=9 1.75@WCDMA, DRX=8	2.3@GSM, DRX=9 2.7@WCDMA, DRX=8	1.2@GSM, DRX=9 1.3@WCDMA, DRX=8
Data Transfer			
WCDMA/HSPA/HSPA+	7.2Mbps(DL) 5.76Mbps(UL)	3.6Mbps(DL) 384Kbps(UL)	14.4Mbps(DL) 5.76Mbps(UL)
GPRS (Kbps)	85.6(DL)/85.6(UL)	85.6(DL)/85.6(UL)	85.6(DL)/85.6(UL)
EDGE (Kbps)	236.8(DL)	236.8(DL)/236.8(UL)	236.8(DL)/236.8(UL)
SMS	●	●	●
CSD		●	●
Software Features			
Protocol	TCP/IP/PPP/HTTP/FTP/EMAIL	TCP/IP/FTP/FTPS/HTTP/HTTPS/SMTP/DNS	TCP/IP/FTP/FTPS/HTTP/HTTPS/SMTP/DNS
eCall			●
MMS	●	●	●
TLS	●	●	●
File System		●	●
Audio Record/Play			#
TTS	#		#
DTMF		#	#
LBS		●	●
FOTA		●	●
Jammer Detection	●	●	●
Network Scanning		●	●
Android RIL	Android 5.0	Android 2.4/4.0/5.0/6.0/7.0	Android 2.4/4.0/5.0/6.0/7.0
USB Driver	Win7/Win8/Win10/ Linux /Android	Microsoft Windows 2000/XP/Vista/Win7/Win8/Win10/ Linux /Android	Microsoft Windows 2000/XP/Vista/Win7/Win8/Win10/ Linux /Android
Embedded AT		●	●
Firmware Upgrade	USB	USB	USB
Interfaces			
UART	●	●	●
USB	●	●	●
SIM	1.8V/3.0V	1.8V/3.0V	1.8V/3.0V
PCM		#	#
ADC	●	●	●
GPIO	At Least 9*GPIO	At Least 7*GPIO	At Least 7*GPIO
SD 卡			●
SPI		●	●
I2C	●	●	●
Certification			
Certification	CE/CE-RED/NCC/RoHS/REACH	A:FCC/PTCRB/IC/RoHS/REACH E:CE/CE-RED/GCF/RoHS/REACH/CCC/NCC/ACMA/CTA/TA/OFCA J:RoHS/REACH/Anatel/ACMA JD:RoHS/REACH/Telec/JATE	A: FCC/RoHS/REACH/ACMA E: CE/GCF/RoHS/REACH/CCC/NCC/ACMA/CTA/TA/OFCA J: RoHS/REACH/Anatel/ACMA JD: RoHS/REACH/Telec/JATE
Carrier Certification		A: Rogers/AT&T E: Orange/Vodafone/Deuts Telecom/Telia Sonera/TIM/KCT J:Docomo JE:Softbank	E:KCT

Typical Applications Telematics,Fleet Management,Tracking,Smart Meters,Security,RMAC

#: Only Supported in Telematics Version

| GSM/GPRS Module

Technology	GSM/GPRS				GSM/GPRS&GNSS	
Product	SIM800C	SIM800F	SIM800H	SIM800C-DS	SIM868	SIM868E
Picture						
Package	LCC, 42PIN	LCC, 68PIN	LGA,88PIN	LCC&LGA,77PIN	LCC&LGA,77PIN	LCC&LGA,77PIN
Dimensions(mm)	17.6*15.7*2.3	24.0*24.0*3.0	17.8*15.8*2.4	17.6*15.7*2.3	17.6*15.7*2.3	17.6*15.7*2.3
Weight(g)	1.3	3.1	1.35	1.3	1.5	1.5
Frequency Bands	GSM: 850/900/1800/1900MHz					
Bluetooth	BT 3.0	BT 3.0&4.0				
GNSS					BeiDou/GPS/GLONASS	BeiDou/GPS/GLONASS
Temperature	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C
Electrical Features						
Supply Voltage Range	3.4V~4.4V	3.4V~4.4V	3.4V~4.4V	3.4V~4.4V	3.4V~4.4V	3.4V~4.4V
Power Consumption(mA)	1.50@GSM, DRX=2 0.90@GSM, DRX=9	1.30@GSM, DRX=2 0.85@GSM, DRX=9	1.50@GSM, DRX=2 0.90@GSM, DRX=9	1.60@GSM, DRX=2 0.93@GSM, DRX=9	1.42@GSM, DRX=2 0.86@GSM, DRX=9	1.42@GSM, DRX=2 0.86@GSM, DRX=9
Data Transfer						
GPRS Slot	Class 10/12					
Data Rate(kbps)	85.6 (DL&UL)					
Software Features						
Protocols	TCP/UDP/HTTP/FTP/POP3/SMTP/PPP	TCP/UDP/HTTP/FTP/POP3/SMTP/PPP	TCP/UDP/HTTP/FTP/POP3/SMTP/PPP	TCP/UDP/HTTP/FTP/POP3/SMTP/PPP	TCP/UDP/HTTP/FTP/POP3/SMTP/PPP	TCP/UDP/HTTP/FTP/POP3/SMTP/PPP
MMS	●	●	●	●	●	●
TLS	○	○	○	○	○	○
Audio Record/Play	●	●	●	●	●	●
TTS	○	○	○	○	○	○
DTMF	●	●	●	●	●	●
LBS	○	○	○	○	○	○
Jammer Detection	●	●	●	●	●	●
Network Scanning	●	●	●	●	●	●
MUX	●	●	●	●	●	●
Embedded AT	○	○	○	○	○	○
Firmware Upgrade	USB/UART	USB/UART	USB/UART	USB/UART	USB/UART	USB/UART
Specifications for Voice						
Speech Codec Modes	AMR/HR/FR/EFR	AMR/HR/FR/EFR	AMR/HR/FR/EFR	AMR/HR/FR/EFR	AMR/HR/FR/EFR	AMR/HR/FR/EFR
Echo Arithmetic	AEC/EES	AEC/EES	AEC/EES	AEC/EES	AEC/EES	AEC/EES
Interfaces						
UART	●	●	●	●	●	●
USB	●	●	●	●	●	●
SIM Card	1.8V/3.0V	1.8V/3.0V	1.8V/3.0V	1.8V/3.0V	1.8V/3.0V	1.8V/3.0V
PCM		○	○	○	○	○
Analog Audio	1 Input&1 Output	1 Input&1 Output	1 Input&1 Output	1 Input&1 Output	1 Input&2 Output	1 Input&2 Output
ADC	●	●	●	●	●	●
GPIO	At Least 2*GPIO	At Least 3*GPIO	At Least 3*GPIO	At Least 4*GPIO	At Least 4*GPIO	At Least 4*GPIO
SD 卡	●	●	●	●	●	●
SPI		○	○	○	○	○
I2C		●	●	●	●	●
Certification						
Certification	CE/CE-RED/FCC/GCF/RoHS/REACH/TA/ACMA/CTA/TA/OFCA	CE/CE-RED/FCC/GCF/RoHS/REACH/TA/ACMA/CTA/TA/OFCA	CE/CE-RED/FCC/GCF/RoHS/REACH/TA/ACMA/CTA/TA/OFCA	CE/CE-RED/FCC/GCF/RoHS/REACH/TA/ACMA/CTA/TA/OFCA	CE/CE-RED/FCC/RoHS/REACH/TA/ACMA/CTA/TA/OFCA	CE/CE-RED/FCC/RoHS/REACH/TA/ACMA/CTA/TA/OFCA
Carrier Certification	TIM	Orange	Orange			

Typical Applications Telematics,Fleet Management,Smart Meters,Security,RMAC

○: Optional

*: Planning

| GNSS Module

Technology	GNSS			
Product	SIM28M	SIM28ML	SIM68M	SIM39EA
Picture				
Package	LCC, 18PIN	LCC, 18PIN	LCC, 18PIN	LCC, 13PIN
Dimensions(mm)	9.7*10.1*2.5	9.7*10.1*2.5	10.1*9.7*2.5	16.0*16.0*6.2
Weight(g)	0.5	0.5	0.5	5.8
Temperature	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C
Electrical Features				
Supply Voltage Range	2.8~4.3V	2.8~4.3V	2.8~4.3V	2.8~4.3V
I/O Voltage	2.8V	2.8V	2.8V	2.8V
Acquisition	17mA	17mA	25mA	32mA
Power Consumption	Tracking	16mA	16mA	21mA
	Sleep	150µA	150µA	340µA
Backup	8µA	8µA	14µA	8µA
GNSS				
GNSS	GPS	GPS	GPS/GLONASS/Galileo/QZSS	GPS
A-GPS	●	●	●	●
Channel Number	22 Track/66 Acq	22 Track/66 Acq	33 Track/99 Acq	22 Track/66 Acq
SBAS	WAAS/EGNOS/GAGAN/MSAS	WAAS/EGNOS/GAGAN/MSAS	WAAS/EGNOS/GAGAN/MSAS	WAAS/EGNOS/GAGAN/MSAS
Sensitivity	Tracking	-165 dBm	-165 dBm	-165 dBm
	Cold Start	-148 dBm	-148 dBm	-148 dBm
TTFF (Time to First Fix)	Reacquisition	-160 dBm	-160 dBm	-160 dBm
	Cold Start	32s	32s	28s
Accuracy	Warm Start	30s	30s	26s
	Hot Start	<1s	<1s	<1s
Max Update Rate	Position	<2.5m CEP	<2.5m CEP	<2.5m CEP
	Velocity	0.1m/s	0.1m/s	0.1m/s
Baud Rate(default)	9600/115200	9600/115200	9600/115200	9600/115200
Jammer Detection	●	●	●	●
Anti-jammering	●	●	●	●
Built-in LNA	●	●	●	●
Interfaces				
UART	●	●	●	●
Reset	●	●	●	●
Time Pulse	●	●	●	●
Digital I/O	●	●	●	●
Antenna				
Antenna Type	Active/passive	Active/passive	Active/passive	Passive
Antenna Power	External or internal	External or internal	External or internal	Internal
Certification				
Certification	CE-RE/RoHS/REACH	CE-RED/RoHS/REACH	CE-RED/RoHS/REACH/A-TICK	CE-RED/RoHS/REACH
Typical Applications		Pet Tracking, Asset Tracking		

| GNSS Module

Technology	GNSS		
Product	SIM33EAU	SIM39EAU	SIM33ELA
Picture			
Package	LCC, 16PIN	LCC, 16PIN	LCC, 31PIN
Dimensions(mm)	22.0*22.0*7.5	22.0*22.0*7.5	14.0*9.6*2.15
Weight(g)	8.5	8.5	0.5
Temperature	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C
Electrical Features			
Supply Voltage Range	2.8~4.3V	2.8~4.3V	2.8~4.3V
I/O Voltage	2.8V	2.8V	2.8V
Acquisition	38mA	27mA	25mA
Power Consumption	Tracking	32mA	24mA
	Sleep	520µA	24µA
Backup	13µA	●	14µA
GNSS			
GNSS	GPS/GLONASS/Galileo/QZSS	GPS	GPS/GLONASS/Galileo/QZSS
A-GPS	●	●	●
Channel Number	33 Track/99 Acq	22 Track/66 Acq	33 Track/99 Acq
SBAS	WAAS/EGNOS/GAGAN/MSAS	WAAS, EGNOS, GAGAN,MSAS	WAAS/EGNOS/GAGAN/MSAS
Sensitivity	Tracking	-165 dBm	-165 dBm
	Cold Start	-146 dBm	-147 dBm
TTFF (Time to First Fix)	Reacquisition	-160 dBm	-160 dBm
	Cold Start	31s	32s
Accuracy	Warm Start	26s	30s
	Hot Start	<1s	<1s
Max Update Rate	Position	<2.5m CEP	2.5m CEP
	Velocity	0.1m/s	0.1m/s
Baud Rate(default)	10Hz	10Hz	10Hz
Jammer Detection	●	●	●
Anti-jammering	●	●	●
Built-in LNA	●	●	●
Interfaces			
UART	●	●	●
Reset	●	●	●
Time Pulse	●	●	●
Digital I/O	●	●	●
Antenna			
Antenna Type	Passive	Passive	Passive
Antenna Power	Internal	Internal	Internal
Certification			
Certification	CE-RED/RoHS/REACH	RoHS/REACH	CE/RoHS/REACH
Typical Applications		Pet Tracking, Asset Tracking	

Wi-Fi Module

Technology	Wi-Fi	
Product	W58	W59
Picture		
Package	LCC, 32PIN	LCC, 40PIN
Dimensions(mm)	16.6 *13.0*2.1	16.0 *18.3*2.3
Weight(g)	1	1.2
Bluetooth	BT 3.0& BLE4.1	BT 3.0& BLE4.2
Temperature	-40°C to +85°C	-40°C to +85°C
General Features		
Frequency band	2.412 ~ 2.484 GHz	2.412 ~ 2.484 GHz 5.17~5.825GHz
Supply Voltage	3.2V~ 3.4V	3.2V~ 3.4V
WLAN Standard	IEEE 802.11 b/g/n	IEEE 802.11a/b/g/n/ac
Modulation Mode	CCK/BPSK/QPSK/16QAM/64QAM	DSSS/CCK/OFDM/BPSK/QPSK/16QAM/64QAM/256QAM
Encryption Mode	WEP/TKIP/AES/WPA-PSK/WPA2-PSK	WEP,TKIP,AES,WPA-PSK,WPA2-PSK
AP (Max Access Point)	30	30
Operator Mode	AP/STA	AP/STA
BT Protocol	SPP(BT 3.0)/GATT(BLE 4.1)	SPP(BT 3.0)/GATT(BLE 4.1)
Data Rate		
802.11b (Mbps)	Max. 11	Max. 11
802.11g (Mbps)	Max. 54	Max. 54
802.11n_HT20 (Mbps)	Max. 65	Max. 65
802.11n_HT40 (Mbps)	Max. 135	Max. 135
802.11ac_HT40 (Mbps)		Max. 200
802.11ac_HT80 (Mbps)		Max. 433.3Mbps
BT 4.1 (Mbps)	Max. 24	Max. 24
Transmitting Power		
802.11b/11Mbps	18dBm	TBD
802.11g/54Mbps	15dBm	TBD
802.11n_HT20/65Mbps	15dBm	TBD
802.11n_HT40/135Mbps	14dBm	TBD
Rx Sensitivity		
802.11b/1Mbps	-95dBm	TBD
802.11b/11Mbps	-94dBm	TBD
802.11g/6Mbps	-91dBm	TBD
802.11g/54Mbps	-78dBm	TBD
802.11n_HT20 MCS0	-90dBm	TBD
802.11n_HT40 MCS7	-75dBm	TBD
Interfaces		
SDIO 3.0	*1	*1
UART	*1	*1
LTE coexistence	*2	*2
BT_EN	*1	*1
WLAN_EN	*1	*1
Antenna	WiFi & BT Antenna	WiFi & BT Antenna *2
Certification	CE*/RoHS*/REACH*	
Typical Applications	Fleet Management, Telematics, Security, Tracking, Agriculture, Smart City, Smart Health, Router, Gateway	

*:Planning

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