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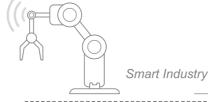


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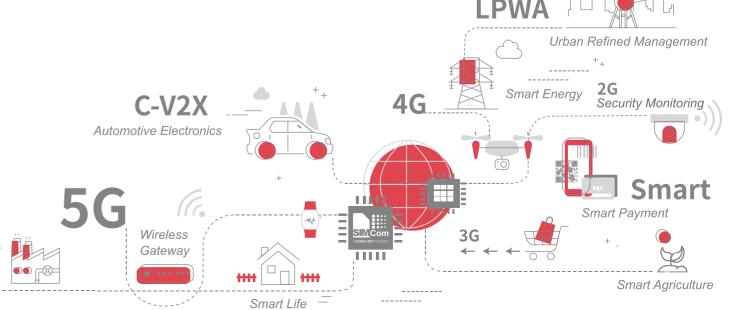


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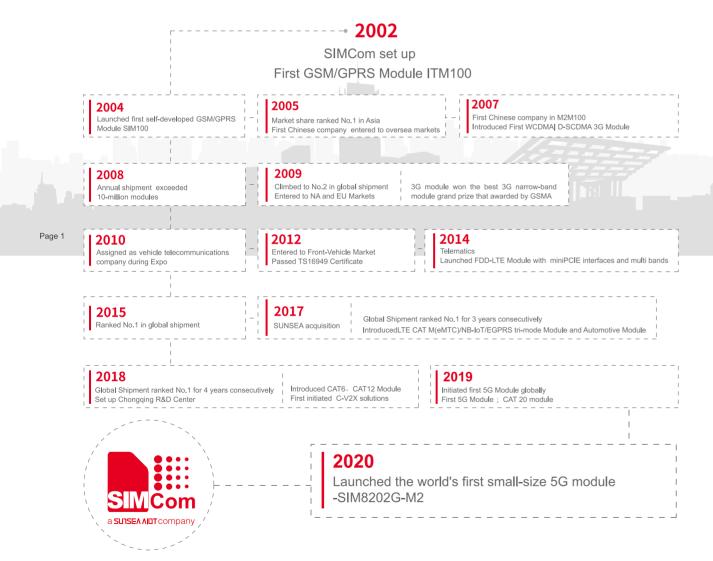
MODULES FOR A CONNECTED WORLD



About SIMCom

SIMCom Wireless Solutions Limited, holding subsidiary of SUNSEA AIOT (002313.SZ), is a global leading Machine-to-Machine (M2M) wireless modules and solutions supplier. Since established in 2002, SIMCom has been fully committed to providing a variety of wireless modules and terminal level solutions worldwide, such as 5G, 4G, LTE-M(CAT-M1), NB-IoT, 3G, 2G, and GPS/GLON-ASS/BEIDOU satellite positioning technology.

SIMCom insists on providing high-quality modules and industry solutions. With 18 years of professional technical innovation and service experiences, it continuously meets the needs of customers in all industries of the Internet of Things. While deepening the vertical industry, we continue to define advantageous products and build core competitiveness. With the Group's continuous investment in research and development, technology and production, we will continue to innovate and enrich our technology roadmap, and promote the development of the industry in the next few years.



I 5G Module

Product		SIM8202G-M2	SIM8200EA-M2	SIM8200G	SIM8300G-M2
		SIM8202G-M2 SIM8200EA-M2 SIM8200G		SIM8300G-M2	
Picture		10 10 10 10 10 10 10 10 10 10 10 10 10 1	SANCONG AND COM	SIME2000	
Form Factor		M.2	M.2	LGA	M.2
Dimensions(mm)	\	30.0*42.0*2.3	30.0*52.0*2.3	41.0*43.6*2.8	30.0*52.0*3.65
Weight(g)	,	6.8g±0.2	8.3g±0.2	11.17g±0.2	11.76g±0.2
Mode		NSA/SA	NSA/SA	NSA/SA	NSA/SA
	5G NR (Sub6G)	n1,n2,n3,n5,n7,n8,n12,n20,n28,n38, n40,n41,n66,n71,n77,n78,n79	n1,n2,n3,n5,n7,n8,n12,n20,n25,n28, n40,n41,n66,n71,n77,n78,n79*	n1,n2,n3,n5,n7,n8,n12,n20,n25,n28, n40,n41,n66,n71,n77,n78,n79	n1,n2,n3,n5,n7,n8,n12,n20,n25 n40,n41,n66,n71,n77,n78,n79
	5G NR (mmWave)				n257/n258/n260/261
	LTE-FDD	B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/ B17/B18/B19/ B20/B25/B26/B28/B29/ B30/B32/B66/B71		B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/ B17/B18/B19/B20/B25/B26/B28/B29/ B30/B66/B71	B1/B2/B3/B4/B5/B7/B8/B12/B1 B14/B17/B18/B19/B20/B25/B26 B28/B29/B30/B66/B71
	LTE-TDD	B34/B38/B39/B40/B41/B42/B43/B48	B34/B38/B39/B40/B41/B42/B43/B48	B34/B38/B39/B40/B41/B42/B43/B48	B34/B38/B39/B40/B41/B42/B43 B46/B48
,	WCDMA	B1/B2/B3/B4/B5/B8	B1/B2/B3/B4/B5/B8	B1/B2/B3/B4/B5/B8	B1/B2/B3/B4/B5/B8
GNSS		GPS/GLONASS/BeiDou (Dedicated GNSS L1 and L5)	GPS/GLONASS/BeiDou (Dedicated GNSS_L1 and L5)	GPS/GLONASS/BeiDou (Dedicated GNSS L1 and L5)	GPS/GLONASS/BeiDou (Dedicated GNSS L1 and L5)
Temperature		-30°C ~ +70°C	-30°C ~ +70°C	-30°C ~ +70°C	-30°C ~ +70°C
Electrical Featu	ires				
Supply Voltge Ra		3.135~4.4V	3.135~4.4V	3.3V~ 4.4V	3.135~4.4V
Power Consumpt sleep)(mA)	tion	<5mA	<5mA	<5mA	TBD
ata Transfer					
nmWave			2.4Gbps(DL)/500Mbps (UL)	2.4Gbps(DL)/1Gbps (UL)	7Gbps(DL)/3Gbps (UL)
Sub-6G		2.4Gbps(DL)/1Gbps (UL)	(optional up to 4Gbps DL) 1Gbps(DL)/200Mbps (UL)	(optional up to 4Gbps DL)	4Gbps(DL)/1Gbps (UL)
TE CAT 20+		1Gbps(DL)/200Mbps (UL)	(optional up to 2Gbps DL)	1Gbps(DL)/200Mbps (UL) (optional up to 2Gbps DL)	2Gbps(DL)/200Mbps (UL)
oftware Feature	es				
Protocol		TCP/IP/IPV4/IPV6/Multi-PDP/FTPS/ HTTPS/MQTTS/DNS	TCP/IP/IPV4/IPV6/Multi-PDP/FTPS/ HTTPS/MQTTS/DNS	TCP/IP/IPV4/IPV6/Mult-PDP/FTPS/ HTTPS/MQTTS/DNS	TCP/IP/IPV4/IPV6/Multi-PDP/F HTTPS/MQTTS/DNS
LS		SSL3.0/TLS1.0/TLS1.2	SSL3.0/TLS1.0/TLS1.2	SSL3.0/TLS1.0/TLS1.2	SSL3.0/TLS1.0/TLS1.2
TMF		 (Sending and Receiving) 	 (Sending and Receiving) 	 (Sending and Receiving) 	 (Sending and Receiving)
OTA		•	•	•	•
oLTE/CSFB/Vol	NR*	•	•	•	•
android RIL		Android 6.0/7.0/8.0/9.0	Android 6.0/7.0/8.0/9.0	Android 6.0/7.0/8.0/9.0	Android 6.0/7.0/8.0/9.0
JSB Driver			Microsoft Windows Win7/Win8/ Win10/Linux/Android	Microsoft Windows Win7/Win8/ Win10/Linux/Android	Microsoft Windows Win7/Win8/ Win10/Linux/Android
NDIS		Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10
IDIS		Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10
PP		Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10
MBIM		Win8/Win10	Win8/Win10	Win8/Win10	Win8/Win10
irmware Upgrad	de	USB/FOTA	USB/FOTA	USB/FOTA	USB/FOTA
nterface					
JSB		3.1 (2.0)	3.1 (2.0)	3.1 (2.0)	3.1 (2.0)
JART		•	•	•	•
U)SIM Card		1.8V/2.95V	1.8V/2.95V	1.8V/2.95V	1.8V/2.95V
PCM		•	•	•	•
GPIO		•	•	•	•
2C		•	•	•	•
PCle		•	•	•	•
SPI RGMII				•	
SDIO3.0				•	
PMI					
ADC				•	
Antenna		*4	*6	*8	*14
Certification		7			17
		RoHS/REACH/CCC/CTA/SRRC/		RoHS/REACH/CCC/CTA/SRRC/	RoHS/REACH/JATE/Telec/GCF

^{*:} Under Development

| LPWA Module

Technolog	у	CAT-M&NB-IoT&GSM		CAT-M & NB-IoT	
Product		SIM7000X	SIM7070X	SIM7080G	SIM7090G
Picture		Control Contro		The state of the s	No. of the control of
Form Factor		LCC, 68PIN	LCC ,68PIN	LCC+LGA,77PIN	LGA, 77PIN
Dimensions(m	ım)	24.0*24.0*2.6		17.6*15.7*2.4	14.8*12.8*2.0
Weight(g)		3.0	2.9	1.2	1.4
	- A (North America)	CAT-M1&CAT-NB1: B2/B4/B12/B13			
Frequency	- E(Europe/ Africa/Austral- ia/Southeast Asia	CAT-M1&CAT-NB1:B3/B8/B20/B28 GPRS/EDGE: 900/1800Mhz	CAT-M1:B1/B2/B3/B4/B5/B8/B12/B13/ B14/B18/B19/B20/B25/B26 /B27/ B28/B31/B66/B72/B85 CAT-NB2:B1/B2/B3/B4/B5/B8/B12/B13/ B18/B19/B20/B25/B26/B28/B31/B66/B85 GSM/GPRS:850/900/1800/1900MHz		
Bands(MHz)	- JC(Japan)	CAT-M1:B1/B3/B5/B8/B18/B19/B26 CAT-NB1:B1/B3/B5/B8/B18/B19/B26 (no GPRS)			
	- G(Global)	CAT-M1: B1/B2/B3/B4/B5/B8/B12/B13/ B18/B19/B20/B26/B28/B39 CAT-NB1: B1/B2/B3/B5/B8/B12/B13/B17/ B18/B19/B20/B26/B28 GSM: 850/900/1800/1900MHz	CAT-M1:B1/B2/B3/B4/B5/B8/B12/B13/B14 B18/B19/B20/B25/B26/B27/B28/B66/B85 CAT-NB2:B1/B2/B3/B4/B5/B8/B12/B13/ B18/B19/B20/B25/B26/B28/B66/B71/B85 GSM/GPRS:850/900/1800/1900MHz	CAT.NB2/CAT.M1: B1/B2/B3/B4/ B5/B8/B12/B13/B14/B17/B18/ B19/B20/B25/B26/B27/B28/B39/ B66/B71/B85	CAT-M:B1/B2/B3/B4/B5/B8/B1 B13/B14/B18/B19/B20/B25/B2 B27/B28/B66/B85 CAT-NB:B1/B2/B3/B4/B5/B8/B B13/B18/B19/B20/B25/B26/B2 B66/B71/B85
GNSS		0	0	0	0
Temperature		- 40°C~+85°C	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C
Electrical Fea					
Supply Voltge	_	3.0V~ 4.3V	3.0V-4.6V	2.7V-4.8V	2.7V-4.8V
Power	PSM	9uA@PSM	3.2uA@PSM	3.2uA@PSM	3.2uA@PSM
Consumption	Sleep	1.2mA@ LTE	0.8mA 114mA@ B5	0.8mA	0.8mA
	Max Power	138mA@ B5	12(Prefered band)	114mA@ B5 12(Prefered band)	114mA@ B5
	stration Time(s)	12(Prefered band)			12(Prefered band)
Receive Sensi Data Transfer	-	-108dB@eMTC; -126dB@NB-loT 15KHz	-108dB@eMTC -126dB@NB-loT15KHz	-108dB@eMTC-126dB@NB-loT15KHz	-108dB@eMTC-126dB@NB-loT15
LTE CAT.NB	(Kbps)	34(DL)/66(UL)	136(DL)/150(UL)	136(DL)/150(UL)	127(DL)/158.5(UL)
LTE CAT.M1(k	(bps)	300(DL)/375(UL)	589(DL)/1119(UL)	589(DL)/1119(UL)	589(DL)/1119(UL)
EDGE(Kbps)		236.8(DL)/236.8(UL)	236.8(DL)/236.8(UL)		
GPRS(Kbps)					
		85.6(DL)/85.6(UL)	85.6(DL)/85.6(UL)		
SMS		•	•	•	•
Software Fea	tures	TCP/UDP/LWM2M/COAP	TCP/UDP/HTTP/HTTPS/TLS/DTLS/	TCP/UDP/HTTP/HTTPS/TLS/DTLS/	TCP/UDP/HTTP/HTTPS/TLS/DTLS
Protocols		/MQTT/FTP/HTTP/TLS/DTLS/NTP	PING/LWM2M/COAP/MQTT		PING/LWM2M/COAP/MQTT
VoLTE		•	•	•	•
GSM Voice			•		
Embedded AT		•	•	•	•
FOTA		•	•	•	•
TLS USB Driver		Microsoft Windows	Microsoft Windows 2000/XP/Vista/	•	•
Firmware Upg	rade	2000/XP/Vista/Win7/Win8/Win10/Linux USB/FOTA	Win7/Win8/Win10/Linux USB/FOTA	USB/FOTA	USB/FOTA
Interfaces				OODII OIA	OODII O IA
F	ull Function Uart	•	•	•	•
UART	low Control Uart	•	•	•	•
USB		•	•	•	•
PCM		•	•	•	0
Status Indicato	or	•	•	•	•
GPIO		•	•	•	•
SPI		0	•	•	•
I2C		•	•	•	•
Certification					
Certification		A: RoHS/REACH/GCF/FCC/PTCRB/ AT&T/Verizon/GCF/IC/Rogers* E: RoHS/REACH/IMDA/RCM/Telstra/ CE(RED)/GCF/ Deutsche Telekom/ Vodafone* JC: RoHS/REACH/Telec/JATE/DoCoMo/ KDDI	CE(RED)/GCF/Orange*/TIM*/	RoHS/REACH/JATE/Telec/DoCoMo*/ KDDI*/Softbank/RCM/CE(RED)/GCF/ Deutsche Telekom/FCC/PTCRB/AT&T Verizon/T-mobile/US Cellular*/IC	RoHS/REACH/JATE/Telec/RC CE(RED)/GCF/FCC/PTCRB/ / AT&T/Verizon*/T-mobile*/ US Cellular*/IC
		G: RoHS/REACH/CCC/RCM/CE(RED)/ GCF/Deutsche Telekom/FCC/IC/Anatel	Verizon*/T-mobile/US Cellular*/IC		

LPWA	Module				
Technolo	qv	NB-IoT&GNSS	NB-loT		
Product	••	SIM7060G	SIM7060R	SIM7020E	SIM7020G
Picture		(0.000 to 0.000 to 0.	CONTRACTOR OF THE PROPERTY OF	₹€ ₩	
Form Factor		LCC, 68PIN	LCC ,68PIN	LCC, 42PIN	LCC+LGA, 77PIN
Dimensions(n	nm)	24.0*24.0*2.6	24*24*2.6	17.6*15.7*2.3	17.6*15.7*2.3
Weight(g)		3.0	3.0	1.3	1.3
Frequency Bands(MHz)	- A (North America) - E(Europe/ Africa/Austral- ia/Southeast Asia			CAT.NB1: B1/B3/B5/B8/ B20/B28	
	- JC(Japan) - G(Global)	CAT.NB2: B1/B2/B3/B4/B5/ B8/B12/B13/B17/B18/B19/ B20/B25/B26/B28/B66/B70/ B85*	CAT.NB1: B1/B2/B3/B4/B5/B8/B12/ B13/B17/B18/B19/B20/B25/B26/ B28/B31/B66/B70		CAT.NB2: B1/B2/B3/B4/B5/ B8/B12/B13/B17/B18/B19/ B20/B25/B26/B28/B66/B70/ B85*
GNSS		4000 - 0500		4000 0500	1000 0500
Temperature	-4	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C
Electrical Fe Supply Voltge		2.1V-3.6V	2.1V-3.6V	2.1V-3.6V	2.1V-3.6V
ouppry voligo	PSM	3.4uA@PSM	3.4uA@PSM	3.4uA@PSM	3.4uA@PSM
Power	Sleen	0.4mA	0.4mA	0.4mA	0.4mA
Consumption	Max Power	114mA@ B5	114mA@ B5	114mA@ B5	114mA@ B5
Network Regi	stration Time(s)	12(Prefered band)	12(Prefered band)	12(Prefered band)	12(Prefered band)
Receive Sens	-	-126dB@NB-loT 15KHz	-126dB@NB-loT 15KHz	-126dB@NB-IoT 15KHz	-126dB@NB-loT 15KHz
Data Transfe					
LTE CAT.NB		26.15(DL)/62.5(UL)	26.15(DL)/62.5(UL)	26.15(DL)/62.5(UL)	136(DL)/150(UL)
LTE CAT.M1(I	Kbps)				
GPRS(Kbps)					
SMS		•	•	•	•
Software Fea	atures				
Protocols		TCP/UDP/LWM2M/COAP/MQTT/ HTTP/HTTPS/TLS/DTLS/DNS/NTP/ PING	TCP/UDP/LWM2M/COAP/MQTT/ HTTP/HTTPS/TLS/DTLS/DNS/NTP/ PING	TCP/UDP/LWM2M/COAP/MQTT /HTTP/HTTPS/TLS/DTLS/DNS/NTP/ PING	TCP/UDP/LWM2M/COAP/MQTT/ HTTP/HTTPS/TLS/DTLS/DNS/NTP/ PING
VoLTE					
GSM Voice					
Embedded AT	Γ	•	•	•	•
FOTA TLS		•	•	•	•
		•	•	•	•
USB Driver		HADT/FOTA		LIADT/FOTA	LIA DT/FOTA
Firmware Upg	grade	UART/FOTA	UART/FOTA	UART/FOTA	UART/FOTA
UART	Fu ll Function Uart	•	•	•	•
	Flow Control Uart	•	•	•	•
PCM		•	•	•	•
Status Indicat	Of	•	•	•	•
GPIO		•	•	•	•
SPI					
I2C					
Certification Certification		CE(RED)*	CE(RED)*	RoHS/REACH/IMDA/CE(RED)/ ATEX/TIM/Deutsche Telekom/Vodafone	RoHS/REACH/RCM/Telstra/ CE(RED)/GCF/ATEX/TIM*/ Deutsche Telekom/Vodafone/FCC/ PTCRM/T-mobile/IC
Typical Appli	cations	Home Security and Automation To	elematics,Smart Meters,Vending,Flo	eet Management.Asset Tracking	

o : Optional * : Under Development

o : Optional * : Under Development

| LTE-A Module

Technolo	gy		LTE CAT12	LTE CAT6
Product			SIM7912G-M2	A7906E-M2
Picture			No. marryezh	A 7 State St
Form Factor			M.2	M.2
Dimensions(mm)		42.0*30.0*2.3	42.0*30.0*2.3
Weight(g)			6.1	6.1
		LTE - FDD	B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B18/B19/ B20/B25/B26/B28/B29/B30/B32/B66	B1/B3/B5/B7/B8/B20/B28/B32
		LTE - TDD	B38/B39/B40/B41	B38/B40/B41
		DL 2XCA	B1+B3/B5/B18/B19/B20/B26;B2+B2/B4/B5/B12/ B13/817/B29/B30/B66;B3+B3/B5/B7/B8/B19/ B20/B28;B4+B4/B5/B12/B13/B17/B29/B30; B5+B7/B30/B66;B7+B7/B20/B28;B12+B30; B13+B66;B20+BB32;B29+B30;B38+B38; B40+B40;B41+B41;B66+B66	B1+B1/B5/B8/B20; 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)
Frequency	LTE	DL 3XCA	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 DL 2 contiguous plus inter-band 3CA: B2+B2+B5;B2+B2+B13;B3+B3+B7;B3+B7+B7;	N/A
		UL 2XCA	B3+b3+B20;B4+B4+B5;B4+B4+B13; B5+B66+B66;B13+B66+B66; B66+B66+B2;B66+B66+B66 B1+B1;B2+B2;B3+B3;B4+B4;B7+B7;B38+B38; B40+B40;B41+B41;B66+B66	N/A
	WCDMA		B1/B2/B3/B4/B5/B8/B19	B1/B3/B5/B8
GNSS			Beidou/GPS/GLONASS	
Temperature			-30°C ~ +70°C	-30°C ~ +70°C
Electrical Fe	eatures			
Supply Voltg	e Range		3.135V~ 4.4V, 3.3V(typ)	3.1V~ 4.4V, Typ: 3.3V
Power Cons		ep)(mA)	3.0	TBD
Data Transfe	er			300Mbps(DL)/50Mbps (UL)
LTE CAT 6				occinisps(BE), occinisps (GE)
LTE CAT 12			600Mbps(DL)/75Mbps (UL)	
Software Fe	atures		TCD/ID/A/ID/C/MA: II: DDD/ETD/ETDC/	
Protocol			TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS / HTTP/HTTPS/DNS	TCP/IP/IPV4/IPV6/Multi-PDP/DNS*
TLS	SSL3.0/TLS1.0/TLS1.2		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 Microsoft Windows2000/XP/Vista/Win7/Win8/	Android 6/7/8/9* Microsoft Windows2000/XP/Vista/Win7/Win8/
USB Driver			Win10/Linux /Android	Win10/Linux /Android
Firmware Up	grade		USB/FOTA	
Interface				
USB3.0			*1	*1
PCIE			*1	*1
PCM			*1	*1
GPIO			*1	*1
I2C			*1	*1
Antenna			*3	*3
Certification	1			
Certification			RoHS/REACH/JATE/Telec/RCM/CE(RED)	CCC/CTA/SRRC/CE(RED)*

*: Under Development

I LTE-A Module

Technolo	ay		LTE CAT6		
Product			SIM7906SA-M2	SIM7906E-M2	SIM7906E-PCIE
Picture			SECTION	ME SUPPLES THE SU	THE SINCE PCK
orm Factor			M.2	M.2	miniPCle
Dimensions(mm)		42.0*30.0*2.3	42.0*30.0*2.3	30.0*51.0*4.3
Veight(g)			6.1	6.1	6.0
		LTE - FDD	B1/B2/B3/B4/B5/B7/B12/B17/B26/B27/ B28/B66	B1/B3/B5/B7/B8/B20/B28/B32	B1/B3/B5/B7/B8/B20/B28/B32
		LTE - TDD	B38/B41	B38/B40/B41	B38/B39/B40/B41
		DL 2XCA	B1+B1/B5/B28;B2+B2/B5/B28; B3+B3/B5/B28;B4+B4/B5/B7/B27/B28; B5+B7/B38/B41/B66;B7+B7/B28; B12+B66;B26+B38/B41; B28+B28/B66;B38+B38; B41+B41;B66+B66;	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+B1/B5/B8/B20/B28; B3+B3/B5/B7/B8/B20/B28; B7+B5/B7/B8/B20/B28; B20+B32;B38+B38;B39+B39;B40+B40; B41+B41;(Note:B32 is only for secondary component carrier)
requency	LTE	DL 3XCA	N/A	N/A	N/A
	WCDMA	UL 2XCA	N/A B1/B2/B4/B5	N/A B1/B3/B5/B8	N/A B1/B3/B5/B8
SNSS			Beidou/GPS/GLONASS/Galileo/QZSS	Beidou/GPS/GLONASS	Beidou/GPS/GLONASS/Galileo/QZSS
emperature			-30°C ~ +70°C	-30°C ~ +70°C	-30°C ~ +70°C
lectrical Fe	eatures				
Supply Voltg			3.135V~ 4.4V,3.7V(typ)	3.135V~ 4.4V,3.3V(typ)	3.1V~ 4.4V, Typ: 3.3V
Power Consi Data Transf		ep)(mA)	2.4	2.4	2.4
LTE CAT 6	er		300Mbps(DL)/75Mbps (UL)	300Mbps(DL)/75Mbps (UL)	300Mbps(DL)/75Mbps (UL)
LTE CAT 12			Soonisps(BE)/Tollisps (GE)	coomspects in this per (ell)	occimapo(oz)/romapo (oz/
Software Fe					
rotocol	diares		TCP/IP/IPV4/IPV6/Multi-PDP/DNS	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS /	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/
LS			SSL3.0/TLS1.0/TLS1.2	HTTP/HTTPS/DNS	HTTP/HTTPS/DNS* SSL3.0/TLS1.0/TLS1.2
OTA			•	SSL3.0/TLS1.0/TLS1.2	• • • • • • • • • • • • • • • • • • •
Android RIL			Android 6/7/8/9	Android 2.3/4.0/5.0/6.0/7.0	Android 6/7/8/9
JSB Driver			Microsoft Windows 2000/XP/Vista/Win7/Win8/ Win10/Linux /Android	Microsoft Windows2000/XP/Vista/Win7/Win8/ Win10/Linux /Android	Microsoft Windows 2000/XP/Vista/Win7/Win8 Win10/Linux /Android
Firmware Up	grade		USB/FOTA	USB/FOTA	USB/FOTA
nterface					
JSB3.0			*1	*1	*1
PCIE			*1	*1	*1
PCM			*1	*1	*1
GPIO			*1	*1	*1
2C			*1	*1	*1
Antenna			*3	*3	*3
Certification	1				

^{*:} Under Development

LLTE Module

Гесhnolo	gy	LTE CAT4	LTE CAT3	LTE CAT1
Product		SIM7600X-H	SIM7100X	A7600E
Picture		SDY-SOC F SUPPLIES STORE FOR SUPPLIES STORE FOR SUPPLIES STORE SUPPLIES STORE SUPPLIES STORE SUPPLIES SUPPLIES STORE SUPPLIES SUP	Petrometer	AYGOC AYGOC AGGOC
orm Factor		LCC, 87PIN	LCC, 87PIN	LCC+LGA,119PIN
Dimensions(n	nm)	30.0*30.0*2.9	30.0*30.0*2.9	30.0*30.0*2.5
Veight(g)		5.7	5.7	4.6
	-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		
	-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	LTE-FDD: B1/B3/B5/B7/B8/B20 LTE-TDD: B38/B40/B41 GSM: 900/1800 MHz
requency Bands	-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	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	
	-G(Global)	LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/ B19/B20/B25/B26/B28/B66 LTE-TDD: B34/B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM: 850/900/1800/1900MHz		
	-NA(North America)	LTE-FDD: B2/B4/B5/B12/B13/B14/B25/B26/ B66/B71 LTE-TDD: B41		
GNSS	,	0	٥	0
Temperature		-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
Electrical Fe	atures	-40 C - 103 C	40 0 103 0	-40 C - 103 C
Supply Voltge		3.4V~ 4.2V	3.4V~ 4.2V	3.4V~ 4.2V
Power Consu	. , ,	2.8@GSM,BS_PA_MFRMS=2 3.3@WCDMA, DRX=9 2.3@LTE	4.3@GSM,BS_PA_MFRMS=2 2.1@WCDMA, DRX=9 1.9@LTE	3.5@GSM,BS_PA_MFRMS=2 3.8@LTE
Data Transfe	r	450/DLV50/LLV	400/DL\/50/LL\	40/DL\/5/LL\
_TE(Mbps) VCDMA/HSF	PA+(Mhns)	150(DL)/50(UL) 42(DL)/5.76(UL)	100(DL)/50(UL) 42(DL)/5.76(UL)	10(DL)/5(UL)
GPRS/EDGE		236.8(DL)/236.8(UL)	236.8(DL)/236.8(UL)	236.8(DL)/236.8(UL)
SMS	(Kbps)	230.6(DL)/230.6(UL)	≥30.6(DL)/≥30.6(UL)	•
Software Fea	atures			
Protocol		TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/ HTTP/ HTTPS/DNS	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/ HTTP/ HTTPS/SMTP/SMTPS/DNS	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS /H' HTTPS/DNS
LS		•	• •	• •
ile System		•	•	•
Audio Record	/Play	0	0	0
TTS		0	0	0
OTMF		0	0	0
.BS		•	•	•
FOTA lamming Det	ection	•	•	•
-	ection	Android 5.0/6.0/7.0/8.0/9.0	Android 5.0/6.0/7.0/8.0/9.0	Android 5.0/6.0/7.0/8.0/9.0
Android RIL JSB Driver		Microsoft Windows 7/8/10 Linux/Android	Microsoft Windows 7/8/10 Linux/Android	Microsoft Windows 7/8/10 Linux/Android
VWAN		•		•
ECM		•	•	•
ИВІМ		Win8/Win10	Win8/Win10	
NDIS	-	Linux/Windows 7/8/10	Linux/Windows 7/8/10	0
Embedded Al Firmware Upg		● USB/FOTA	USB/FOTA	USB/FOTA
nterfaces	,.aao	555/1 6 I/K	335/1 3 // 1	35511 0 171
IM Card		1.8V/3.0V	1.8V/3.0V	1.8V/3.0V
JART		•	•	•
JSB PCM		•	•	•
ADC		•	•	•
GPIO		•	•	•
SD Card		•	•	•
SPI 2C		•	•	
ZC Diversity Rec	eiver	•	•	
Certification		A. DAUS/DEACH/ECO/DTCDD/AT01//0/D*		
Certification		A: RoHS/REACH/FCC/PTCRB/AT&T/IC/Rogers* E: RoHS/REACH/IMDA/CE(RED)/GCF/ Deutsche Telekom/Vodafone JC: RoHS/REACH/Telec/JATE/DoCoMo/KDDI/Softbank SA: RoHS/REACH/RCM/CE(RED)/Anatel V: RoHS/REACH/GCF/FCC/PtCRB/AT&T/Verizon/ T-mobile/US Cellular*/IC G: RoHS/REACH/CCC/JATE/Telec/KC*/RCM/Telstra*/ CE(RED)/GCF/Deutsche Telekom/ICASA*/FCC/PTCRB/	A: RoHS/REACH/FCC/PTCRB/AT&T/IC/Rogers E: RoHS/REACH/CE(RED)/GCF*/ICASA JC: RoHS/REACH/Telec/JATE/DoCoMo/KDDI JE: RoHS/REACH/Telec/JATE/Softbank	RoHS*/REACH*/CE(RED)

o:Optional *: Under Development Page 7

Technolo	gy	LTE CAT1		
Product		SIM7600X	SIM7500X	A7670X
Picture		SECSECT CONTROL CONTRO		
Form Factor		LCC, 87PIN	LGA, 56PIN	LGA, 68PIN
Dimensions(r	nm)	30.0*30.0*2.9	24.0*27.0*2.75	24.0*24.0*2.3
Weight(g)		5.7	4	3.08
	-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)		LTE-FDD B4/B13	
Frequency Bands		LTE-FDD: B1/B3/B5/B7/B8/B20 LTE-TDD: B38/B40/B41 WCDMA: B1/B5/B8 GSM: 900/1800 MHz	LTE-FDD: B1/B3/B7/B8/B20 WCDMA: B1/B8 GSM: 900/1800MHz	LTE-FDD: B1/B3/B5/B7/B8/B20 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: 850/900/1800/1900 MHz	LTE-FDD: B1/B3/B5/B7/B8/B28 WCDMA: B1/B5	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66 GSM: 850/900/1800/1900 MHz
	-JC/JE(Japan)		JC: LTE-FDD: B1/B18/B19/B26 JE: LTE-FDD: B1/B3/B8	
	-G(Global)	LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/ B19/B20/B25/B26/B28/B66 LTE-TDD: B34/B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM: 850/900/1800/1900MHz		
	-NA(North America)	LTE-FDD: B2/B4/B5/B12/B13/B14/B25/ B26/B66/B71 LTE-TDD: B41		
	-C(China)	BEGISSOIDTT ETE TBB: 541		LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/ B39/B40/B41 GSM: 900/1800 MHz
GNSS		0	0	
Temperature		-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
Electrical Fe	atures			
Supply Voltge	e Range	3.4V~ 4.2V	3.4V~ 4.2V	3.4V~ 4.2V
Power Consu	. , ,	2.8@GSM,BS_PA_MFRMS=2 3.3@WCDMA, DRX=9 2.3@LTE	2.8@GSM,BS_PA_MFRMS=2 3.3@WCDMA, DRX=9 1.6@LTE	3.5@GSM,BS_PA_MFRMS=2 3.8@LTE
LTE(Mbps)	:1	10(DL)/5(LL)	10/DL)/5/LIL)	10/DL\/5/LIL\
WCDMA/HSF	2A±(Mbps)	10(DL)/5(UL)	10(DL)/5(UL)	10(DL)/5(UL)
		42(DL)/5.76(UL)	42(DL)/5.76(UL)	236.8(DL)/236.8(UL)
GPRS/EDGE SMS	(Kbps)	236.8(DL)/236.8(UL)	236.8(DL)/236.8(UL)	•
Software Fe	atures			
Protocol		TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/
		HTTP/HTTPS/DNS	HTTP/HTTPS/DNS	HTTP/HTTPS/DNS
TLS File System		•	•	•
Audio Record	l/Play	0	0	0
TTS		0	0	0
DTMF		0	0	0
LBS		•	•	•
FOTA		•	•	•
Jamming Det Android RIL	ection	Android 5.0/6.0/7.0/8.0/9.0	Android 5.0/6.0/7.0/8.0/9.0	Android 5.0/6.0/7.0/8.0/9.0
Android KIL		Microsoft Windows 7/8/10	Microsoft Windows 7/8/10	Microsoft Windows 7/8/10
USB Driver		Linux/Android	Linux/Android	Linux/Android
WWAN		•	•	•
ECM		•	•	•
MBIM		Win8/Win10 Linux/Windows 7/8/10	Win8/Win10 Linux/Windows 7/8/10	
NDIS Embedded A ⁻ Firmware Upg		USB/FOTA	USB/FOTA	O USB/FOTA
Interfaces	g. 300	555.1 6 1/1		
SIM Card		1.8V/3.0V	1.8V/3.0V	1.8V/3.0V
UART		•	•	•
USB		•	•	•
PCM		0	0	0
ADC GPIO		•	•	•
SD Card		•		•
SPI		0		
2C		•	•	•
Diversity Rec		•	•	
Certification Certification		A: RoHS/REACH/FCC/PTCRB/AT&T/IC/Rogers/Anatel E: RoHS/REACH/KC/IMDA/CE(RED)/GCF/Deutsche Telekom/Vodafone/SA: RoHS/REACH/RCM/Telstra/CE(RED)/GCF/Anatel NA: RoHS/REACH/GCF/FCC/PTCRB/AT&T/Verizon/T-mobile/US Cellular*/ICG: RoHS/REACH/CE(RED)/JATE/Telec/FCC/RCM/	A: RoHS/REACH/FCC/PTCRB/AT&T/IC/Rogers E: RoHS/REACH/SRRC/CE(RED)/Deutsche Telekom JC: RoHS/REACH/Telec/JATE/DoCoMo/KDDI JE: RoHS/REACH/Telec/JATE/Softbank SA: RoHS/REACH/RCM/Telstra*/CE(RED) V: RoHS/REACH/GCF/FCC/Verizon	C: RoHS*/REACH*/CCC/CTA/SRRC/CMCC*/ China Unicom*/China Telecom* E: RoHS*/REACH*/CE(RED) SA: RoHS*/REACH*/CE(RED)*/RCM*/FCC*/An

Smart Module

Technology	Smart Module	
Product	SIM8905X	SIM8950X
Picture	SINSOUSE In No drift Service in the control of	SIN950C
Form Factor	LCC+LGA 210PIN	LCC+LGA 210PIN
Dimensions(mm)	40.5*40.5*2.8	44.1*45.6*2.8
Weight(g)	10.6	12.5 LTE-FDD: B2/B4/B5/B12/B13/B14/B25/B26
-A(North America		LTE-TDD: B41 WCDMA: B2/B4/B5 EDGE/GPRS/GSM: 850/1900 MHz
Frequency -E(Europ Bands	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/B5/B8 GSM: 900/1800 MHz
GNSS	BeiDou/GPS/GLONASS	BeiDou/GPS/GLONASS
WLAN	2.4G/5G, 802.11 b/g/n/a	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
Memory	1GB LPDDR3 RAM +8GB eMMC Flash	2GB LPDDR3 RAM +16GB eMMC Flash
Supply Voltge Range	3.4V~ 4.4V	3.4V~ 4.4V
Temperature	-35°C ~ +75°C	-25°C ~ +75°C
Data Transfer	LTE CAT 4 - 150(DL)/50/LIL)	LTE CAT 4 - 150/DL\/50/LU\
LTE(Mbps) WCDMA/HSPA/HSPA+(Mbj	LTE CAT 4 - 150(DL)/50(UL) os) 42.2(DL)/5.76(UL)	LTE CAT 4 - 150(DL)/50(UL) 42.2(DL)/5.76(UL)
TD-SCDMA(Mbps)	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)
CDMA 1xRTT(Kbps)	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)
EDGE(Kbps)	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*1200 60fps
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 21MP Secondary camera: 2-lane MIPI_CSI, up to 8MP
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 47/5x/6x –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
Analog Audio	2 Inputs&3 Outputs	2 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, ARM-WB; G.711, WMA 9/10 Pro	G711;QCELP;EVRC;EVRC-B、EVRC-WB; AMR-NB、AMR-WB;GSM-EFT、GSM-FT、 GSM-HR
Interfaces		
UART	*2	*4
USB	USB2.0	USB3.0/2.0/Type-C/OTG
UIM GPIO	*2 At Least 21*GPIO	*2 At Least 22*GPIO
SD Card	AL LEGISL Z F GF TO	• • • • • • • • • • • • • • • • • • •
SPI	•	•
12C	*3	*3
ADC	*1	*1
Motor Drive	*1	0
WLED Sink		0
Flash Drive		0 M : 0D: - 'I 00N000NV 5'/DT
Antenna	Main&Diversity&GNSS&Wi-Fi/BT ANT	Main&Diversity&GNSS&Wi-Fi/BT
Software Features Operating System	Android 5.1/7.1/8.1/Linux 4.9	Android 7.1/8.1
	Microsoft Windows	Microsoft Windows
USB Driver	2000/XP/Vista/Win7/Win8/Win10/Linux	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
Dual LCD		•
DSDS	•	•
Charge Function	INCOME THE SOUR	0
Firmware Upgrade	USB/OTA/TF card	USB/OTA/TF card
Certification	A: RoHS/REACH/FCC/PTCRB/IC/AT&T	RoHS/REACH/CE(RED)

o:Optional *: Under Development

Technology	LTE CAT4	C-V2X
Product	SIM7800E	SIM8100
Picture	PM:S2-050XX-XXXXXX SIX-1010000000000000000000000000000000000	SIMSTON THE CO-SOLAR THE CO-
Form Factor	LGA, 282 PIN	LGA, 189 PIN
Dimensions(mm)	34.0*40.0*3.1	30.0*32.0*2.75
Weight(g)	7.8g±0.2	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	3.3V~ 4.3V	4.75V~ 5.25V
Supply Voltge Range	1.8mA@GSM,BS_PA_MFRMS=2 3.3mA@WCDMA,	
Power Consumption (sleep)(mA)	DRX=9 1.84mA@LTE-FDD	TBD
Data Transfer		
GPRS Slot	class 12	
LTE(Mbps) WCDMA/HSPA/HSPA+(Mbps)	LTE CAT 4: 150 (DL)/50(UL)	
TD-SCDMA(Mbps)	42.2(DL)/11.5(UL) 2.8(DL)/2.2(UL)	3GPP Release 14 C-V2X PC-5 mode
CDMA EV-DO(Mbps)	3.1(DL)/1.8(UL)	
EDGE(Kbps)	236.8(DL)/236.8(UL)	
Software Features		
Protocol	TCP/IP/IPV4/IPV6/MultiPDP/FTP/FTPS/HTTP/ HTTPS/DNS/SMTP/	PC5
	SMTPS/NTP/PING/SSL	N/A
eCall 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_WWAN Driver	•	N/A
RIL Driver	Android 2.3/4.0/5.0/6.0/7.0	N/A
Security Douting policy	SELinux/Trustzone/Secure boot	N/A N/A
Routing policy Android RIL	4G,WIFI and Ehternet port 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	Williams 2000/AF/Vista/Will//Williams/Alialoid	N/A
Embedded AT	•	N/A
Firmware Upgrade	USB /FOTA	N/A
Wi-Fi	2.4G/5G(with W59)	N/A
Interfaces		
SGMII	10M/100M/1000M Ehternet	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	4100	N/A
	1*12\$	
Analog Audio	0	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 m
SPI	1*SPI	1*SPI
12C	1*I2C	N/A
Antenna	1*Main&1*Diversity&1*GNSS	2*V2X&1*GNSS
Certification		
Certification	RoHS/REACH/CE(RED)*	

o:Optional *: Under Development

I WCDMA/HSPA/HSPA+ Module

WCDM	A/HSPA/	HSPA+ Module
Technolo	gy	WCDMA/HSDPA
Product		SIM5320X
Picture		CONTRACTOR
Form Factor		LCC, 80PIN
Dimensions(r	nm)	30.0*30.0*2.9
Weight(g)		5.6
	-A(North America)	WCDMA: B2/B5 GSM: 850/900/1800/1900MHz
_	-E(China/ Europe)	WCDMA: B1/B8 GSM: 850/900/1800/1900MHz
Frequency Bands	-JE (Japan)	WCDMA: B1/B8 GSM: 850/900/1800/1900MHz
	-J(South Asia /Australia)	WCDMA: B1/B5(B6) GSM: 850/900/1800/1900MHz
GNSS		GPS
Temperature	,	-40°C ~ +85°C
Electrical Fe		2.47.4.27.
Supply Voltge		3.4V~4.2V
Power Consu		2.3@GSM, DRX=9 2.7@WCDMA, DRX=8
Data Transfe		
WCDMA/HSI		3.6Mbps(DL) 384Kbps(UL)
GPRS (Kbps		85.6(DL)/85.6(UL)
EDGE (Kbp:	5)	236.8(DL)/236.8(UL)
CSD		•
Software Fe	atures	•
Protocol		TCP/IP/FTP/FTPS/HTTP/HTTPS/SMTP/DNS
eCall		
MMS		•
TLS		•
File System		•
Audio Record	/Play	
TTS		
DTMF		0
LBS		•
FOTA		•
Jamming Det	ection	•
Network Scar	nning	•
Android RIL		Android 2.4/4.0/5.0/6.0/7.0
USB Driver		Microsoft Windows 2000/XP/Vista/Win7/Win8/ Win10/ Linux /Android
Embedded A	Г	•
Firmware Up	grade	USB
Interfaces		
UART		•
USB		•
SIM		1.8V/3.0V
PCM		
ADC GPIO		At Least 7*GPIO
SD卡		AL LOGOL / OI IO
SPI		•
I2C		•
Certification		

A: RoHS/REACH/RCM/FCC/PTCRB/AT&T/IC/Rogers

E: RoHS/REACH/CCC/IMDA*/RCM/CE(RED)/GCF/Orange/TIM/Deutsche Telekom/Vodafone/ICASA

J: RoHS/REACH/Telec/JATE/Docomo/RCM

 $\textbf{\textbf{JE}:}~ \textbf{RoHS/REACH/Telec/JATE/Softbank}$

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

o: Optional *: Under Development

I GSM/GPRS Module

Technology	GSM/GPRS		
Product	SIM800C	SIM800F	SIM800H
Picture	EPONC - TO SECOND	C C C C C C C C C C C C C C C C C C C	The state of the s
Form Factor	LCC, 42PIN	LCC, 68PIN	LGA,88PIN
Dimensions(mm)	17.6*15.7*2.3	24.0*24.0*3.0	17.8*15.8*2.4
Weight(g)	1.3	3.1	1.35
Frequency Bands	GSM: 850/900/1800/1900MHz	GSM: 850/900/1800/1900MHz	GSM: 850/900/1800/1900MHz
Bluetooth	BT 3.0	BT 3.0	BT 3.0
GNSS			
Temperature	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C
Electrical Features			
Supply Voltge Range	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
Data Transfer	0.00@OOM, DIW-9	0.00@00IN, DIVX-9	0.00@00INI, DI W-9
GPRS Slot	Class 10/12	Class 10/12	Class 10/12
Data Rate(kbps)	85.6 (DL&UL)	85.6 (DL&UL)	85.6 (DL&UL)
Software Features			
Protocols	TCP/UDP/HTTP/FTP/	TCP/UDP/HTTP/FTP/	TCP/UDP/HTTP/FTP/
MMS	POP3/SMTP/PPP	POP3/SMTP/PPP	POP3/SMTP/PPP
TLS	•	•	•
Audio Record/Play	•	•	•
TTS	0	٥	0
DTMF	•	•	•
LBS	•	0	0
Jamming Detection	•	•	•
Network Scanning	•	•	•
MUX	•	•	•
Embedded AT	•	0	0
Firmware Upgrade	USB/UART	USB/UART	USB/UART
Specifications for Voice			
Speech Codec Modes	AMR/HR/FR/EFR	AMR/HR/FR/EFR	AMR/HR/FR/EFR
Echo Arithmetic	AEC/EES	AEC/EES	AEC/EES
Interfaces			
UART	•	•	•
USB	•	•	•
SIM Card	1.8V/3.0V	1.8V/3.0V	1.8V/3.0V
PCM		0	0
Analog Audio	1 Input&1 Output	1 Input&1 Output	1 Input&1 Output
ADC	•	•	•
GPIO	At Least 2*GPIO	At Least 3*GPIO	At Least 3*GPIO
SD	•	•	•
SPI		0	0
12C			
Certification		•	•
Certification	RoHS/REACH/CCC/CTA/SRRC/CMCC/ China Unicom/RCM/CE(RED)/GCF/TIM/ Deutsche Telekom/ICASA/FCC/Anatel//BQB	RoHS/REACH/CCC/CTA/SRRC/CMCC/CE(RED)/ GCF/Orange/ICASA/FCC	RoHS/REACH/CCC/RCM/CE(RED)/GCF/Ora

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

o: Optional *: Under Development

Certification

| GSM/GPRS Module

Technology	GSM/GPRS	GSM/GPRS&GNSS	
Product	SIM800C-DS	SIM868	SIM868E
Picture	C C	Cross -	TOTAL C
Form Factor	LCC& LGA, 77PIN	LCC&LGA,77PIN	LCC&LGA,77PIN
Dimensions(mm)	17.6*15.7*2.3	17.6*15.7*2.3	17.6*15.7*2.3
Veight(g)	1.3	1.5	1.5
Frequency Bands	GSM: 850/900/1800/1900MHz	GSM: 850/900/1800/1900MHz	GSM: 850/900/1800/1900MHz
Bluetooth	BT 3.0	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
Electrical Features			
Supply Voltge Range	3.4V~4.4V	3.4V~4.4V	3.4V~ 4.4V
Power Consumption(mA)	1.60@GSM, DRX=2		1.42@GSM, DRX=2
Data Transfer	0.93@GSM, DRX=9		0.86@GSM, DRX=9
GPRS Slot	Class 10/12	Class 10/12	Class 10/12
Data Rate(kbps)	85.6 (DL&UL)	85.6 (DL&UL)	85.6 (DL&UL)
Software Features			
Protocols	TCP/UDP/HTTP/FTP/	TCP/UDP/HTTP/FTP/	TCP/UDP/HTTP/FTP/
MMS	POP3/SMTP/PPP	POP3/SMTP/PPP	POP3/SMTP/PPP
TLS	0	0	0
Audio Record/Play	_		
TTS	•	•	0
DTMF			
	•	•	0
LBS			0
Jamming Detection	•	•	•
Network Scanning	•	•	•
MUX	•	•	•
Embedded AT	•	•	0
Firmware Upgrade	USB/UART	USB/UART	USB/UART
Specifications for Voice			
Speech Codec Modes	AMR/HR/FR/EFR	AMR/HR/FR/EFR	AMR/HR/FR/EFR
Echo Arithmetic	AEC/EES	AEC/EES	AEC/EES
nterfaces			
JART	•	•	•
JSB	•	•	•
SIM Card	1.8V/3.0V	1.8V/3.0V	1.8V/3.0V
PCM	0	٥	0
Analog Audio	1 Input&1 Output	1 Input&2 Output	1 Input&2 Output
ADC	•	•	•
GPIO	At Least 4*GPIO	At Least 4*GPIO	At Least 4*GPIO
SD卡	•	•	•
SPI	0	0	0
12C	•	•	•
Certification			
Certification	CE/RoHS/REACH	RoHS/REACH/CCC/CTA/SRRC/CMCC/ CE(RED)/GCF/Deutsche Telekom/ICASA/F	CE/RoHS/REACH/BQB/Deutsche Telek

o: Optional *: Under Development

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I GNSS Module

Technolo	gy	GNSS			
Product		SIM28M	SIM28ML	SIM68M	SIM68ML
Picture					A STATE OF THE STA
Form Factor		LCC, 18PIN	LCC, 18PIN	LCC, 18PIN	LCC, 18PIN
Dimensions(mm)	9.7*10.1*2.5	9.7*10.1*2.5	10.1*9.7*2.5	9.7*10.1*2.5
Weight(g)		0.5	0.5	0.5	0.5
Temperature		-40°C~+85°C	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C
Electrical Fe	eatures				
Supply Voltge	e Range	2.8~4.3V	2.8~4.3V	2.8~4.3V	2.8~4.3V
/O Voltage		2.8V	2.8V	2.8V	2.8V
	Acquisition	17mA	17mA	25mA	25mA
Power Consump-	Tracking	16mA	16mA	21mA	18mA
ion	Sleep	150μΑ	150μΑ	340µA	350uA
	Backup	8μΑ	8μΑ	14µA	14uA
GNSS					
GNSS		GPS	GPS	GPS/GLONASS/Galileo/QZSS	GPS/GLONASS/Galileo/QZSS
A-GPS		•		•	•
Channel Nun	nber	22 Track/66 Acq	22 Track/66 Acq	33 Track/99 Acq	33 Track/99 Acq
SBAS		WAAS/EGNOS/GAGAN/MSAS	WAAS/EGNOS/GAGAN/MSAS	WAAS/EGNOS/GAGAN/MSAS	WAAS/EGNOS/GAGAN/MSAS
	Tracking	-165 dBm	-165 dBm	-165 dBm	-165 dBm
Sensivity	Cold Start	-148 dBm	-148 dBm	-148 dBm	-148 dBm
	Reacquisition	-160 dBm	-160 dBm	-160 dBm	-160 dBm
	Cold Start	32s	32s	28s	28s
TFF Time to	Warm Start	30s	30s	26s	26s
First Fix)	Hot Start	<1s	<1s	<1s	<1s
	Position	<2.5m CEP	<2.5m CEP	<2.5m CEP	<2.5m CEP
Accuracy	Velocity	0.1m/s	0.1m/s	0.1m/s	0.1m/s
/lax Update	Rate	10Hz	5Hz	10Hz	10Hz
Baud Rate(de	efault)	9600/115200	9600/115200	9600/115200	9600/115200
amming Det	tection	•		•	•
Anti-jamming	I	•	•	•	•
Built-in LNA		•	•	•	•
nterfaces					
JART		•	•	•	•
Reset		•	•	•	•
Time Pulse		•	•	•	•
Digital I/O		•	•	•	•
Antenna					
Antenna Type		Active/passive	Active/passive	Active/passive	Active/passive
Antenna Power		External or internal	External or internal	External or internal	External or internal
Certification	1				

o: Optional *: Under Development

| GNSS Module

Technology		GNSS			
Product		SIM33ELA	SIM68E	SIM68D	SIM68I
Picture		Est I	Charles Charles Charles Charles Charles	STATE OF THE STATE	Total
Form Factor		LCC, 31PIN	LCC, 22PIN	LCC, 24PIN	LCC, 24PIN
Dimensions(mm)	14.0*9.6*2.15	13.0*15.0*2.3	16*12.2*2.4	16*12.2*2.4
Weight(g)		0.5	0.5	1	1
Temperature		-40°C~+85°C	-40°C~+85°C	-40°C ~ +85°C	-40°C ~ +85°C
Electrical Fe	eatures				
Supply Voltge	e Range	2.8~4.3V	2.8~4.3V	2.8~4.5V	2.8~4.5V
I/O Voltage		2.8V	2.8V	2.8V	2.8V
	Acquisition	25mA	25mA	32mA	32mA
Power	Tracking	20mA	20mA	23mA	23mA
Consump- tion	Sleep	320µA	340µA	353uA	353uA
	Backup	14μΑ	14µA	78uA	78uA
GNSS					
GNSS		GPS/GLONASS/Galileo/QZSS	GPS/GLONASS/Galileo/QZSS	L1: GPS/Beidou/GLONASS/ Galileo/QZSS L5: GPS/Beidou/Galileo/QZSS/	L1: GPS/Beidou/GLONASS/Ga L5: NavIC
A-GPS		•	•	•	•
Channel Nur	mber	33 Track/99 Acq	33 Track/99 Acq	L1:75+L5:60	L1:75+L5:7
SBAS		WAAS/EGNOS/GAGAN/MSAS	WAAS, EGNOS, GAGAN,MSAS	WAAS/EGNOS/GAGAN/MSAS/ SDCM	WAAS/EGNOS/GAGAN/MSAS SDCM
	Tracking	-165 dBm	-165 dBm	-165 dBm	-165 dBm
Sensivity	Cold Start	-147 dBm	-148 dBm	-148 dBm	-148 dBm
	Reacquisition	-160 dBm	-160 dBm	TBD	TBD
	Cold Start	28s	28s	TBD	TBD
TTFF (Time to	Warm Start	26s	26s	24S	24\$
First Fix)	Hot Start	<1s	<1s	<18	<18
	Position	<2.5m CEP	<2.5m CEP	<1m CEP	<1m CEP
Accuracy	Velocity	0.1m/s	0.1m/s	TBD	TBD
Max Update	Rate	10Hz	10Hz	10Hz	10Hz
Baud Rate(d	efault)	9600/115200	9600/115200	9600/115200	9600/115200
Jamming De	tection	•	•	•	•
Anti-jamming	J	•	•	•	•
Built-in LNA		•	•	•	•
Interfaces					
UART		•	•	•	•
Reset			•	•	•
Time Pulse		•	•	•	•
Digital I/O		•	•	•	•
Antenna					
Antenna Typ	e	Passive	Active/passive	Active/passive	Active/passive
Antenna Power		Internal	Internal	External or internal	External or internal
Certification	1				
		RoHS/REACH/CE(RED)	RoHS/REACH/CE(RED)	RoHS*/REACH*/CE(RED)*	RoHS*/REACH*/CE(RED)*

o: Optional *: Under Development

I GNSS Module

Technology		GNSS				
Product		SIM33EAU	SIM39EAU	SIM39EA	SIM39EAR	
Picture		• MASSCALI		O SAMSHEA	O SHEAR	
Form Factor	r	LCC, 16PIN	LCC, 16PIN	LCC, 13PIN	LCC, 13PIN	
Dimensions	(mm)	22.0*22.0*7.5	22.0*22.0*7.5	16.0*16.0*6.2	16.0*16.0*6.2	
Neight(g)		8.5	8.5	5.8	5.8	
Temperature	е	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C	
Electrical F	eatures					
Supply Volto	ge Range	2.8~4.3V	2.8~4.3V	2.8~4.3V	2.8~4.3V	
/O Voltage		2.8V	2.8V	2.8V	2.8V	
	Acquisition	38mA	27mA	32mA	32mA	
Power Consump-	Tracking	32mA	24mA	27mA	27mA	
ion	Sleep	520μΑ	24µA	400μΑ	400μΑ	
	Backup	13µA		Αμ8	8μΑ	
GNSS						
GNSS		GPS/GLONASS/Galileo/QZSS	GPS	GPS	GPS	
A-GPS		•	•	•	•	
Channel Nu	mber	33 Track/99 Acq	22 Track/66 Acq	22 Track/66 Acq	22 Track/66 Acq	
SBAS		WAAS/EGNOS/GAGAN/MSAS	WAAS, EGNOS, GAGAN,MSAS	WAAS/EGNOS/GAGAN/MSAS	WAAS/EGNOS/GAGAN/MSAS	
	Tracking	-165 dBm	-165 dBm	-165 dBm	-165 dBm	
Sensivity	Cold Start	-146 dBm	-147 dBm	-147 dBm	-147 dBm	
	Reacquisition	-160 dBm	-160 dBm	-160 dBm	-160 dBm	
	Cold Start	31s	32s	32s	32s	
TTFF Time to	Warm Start	26s	30s	30s	30s	
First Fix)	Hot Start	<1s	<1s	<1s	<1s	
	Position	<2.5m CEP	2.5m CEP	<2.5m CEP	<2.5m CEP	
Accuracy	Velocity	0.1m/s	0.1m/s	0.1m/s	0.1m/s	
Max Update	Rate	10Hz	10Hz	10Hz	10Hz	
Baud Rate(default)	9600/115200	9600/115200	9600/115200	9600/115200	
Jamming De	etection	•	•	•	•	
Anti-jammin	g	•	•	•	•	
Built-in LNA		•	•	•	•	
nterfaces						
JART		•	•	•	•	
Reset						
Γime Pulse		•	•	•	•	
Digital I/O		•	•	•	•	
Antenna						
Antenna Type		Passive	Passive	Passive	Passive	
Antenna Power		Internal	Internal	Internal	Internal	
Certificatio	n					
Certification		RoHS/REACH/CE(RED)	RoHS/REACH/CE(RED)	RoHS/REACH/CE(RED)	RoHS/REACH/CE(RED)*	

o: Ontional * : Under Developme

| Wi-Fi Module

echnology roduct	Wi-Fi W58	W59	W80
Toduct	**35	***************************************	*****
icture	101 Mag (1	30	Case Case
orm Factor	LCC, 32PIN	LCC, 40PIN	LCC+LGA, 90PIN
Dimensions(mm)	16.6 *13.0*2.1	16.0 *18.3*2.3	17.0 *24*2.9
Veight(g)	1.0	1.2	TBD
luetooth	BT 3.0& BLE4.1	BT 3.0& BLE4.2	BT 5.1&BLE5.0
emperature	-40°C to +85°C	-40°C to +85°C	-40°C ~ +85°C
eneral Features			
requency band	2.412 ~ 2.484 GHz	2.412 ~ 2.484 GHz 5.17~5.825GHz	2.412 ~ 2.484 GHz 5.17~5.825GHz
upply Voltage	3.2V~ 3.4V	3.2V~ 3.4V	3.3V ~ 4.25V
/LAN Standard	IEEE 802.11 b/g/n	IEEE 802.11a/b/g/n/ac	IEEE 802.11a/b/g/n/ac/ax
odulation Mode	CCK/BPSK/QPSK/16QAM/64QAM	DSSS/CCK/OFDM/BPSK/QPSK/16QAM/ 64QAM/256QAM	CCK/BPSK/QPSK/16QAM/64QAM/ 256QAM/1024QAM
ncryption Mode	WEP/TKIP/AES/WPA-PSK/WPA2-PSK	WEP/TKIP/AES/WPA-PSK/WPA2-PSK	WPA3
P (Max Access Point)	30	30	30
perator Mode	AP/STA	AP/STA	AP/STA
T Protocol	SPP(BT 3.0)/GATT(BLE 4.1)	SPP(BT 3.0)/GATT(BLE 4.1)	SPP(BT 3.0)/GATT(BLE 4.1)
ata Rate			
02.11b (Mbps)	Max. 11	Max. 11	
02.11g (Mbps)	Max. 54	Max. 54	
02.11n_HT20 (Mbps)	Max. 65	Max. 65	
02.11n_HT40 (Mbps)	Max. 135	Max. 135	
02.11ac_HT40 (Mbps)		Max. 200	
02.11ac_HT80 (Mbps) 02.11ax_HT80 (Mbps) T 4.1 (Mbps)	Max. 24	Max. 433.3Mbps Max. 24	Max.1.775Gbps
	IVIGA. 27	WGA. 24	
ransmitting Power			
02.11b/11Mbps	18dBm	TBD	TBD
02.11g/54Mbps	15dBm	TBD	TBD
02.11n_HT20/65Mbps	15dBm	TBD	TBD
02.11n_HT40/135Mbps	14dBm	TBD	TBD
x Sensitivity			
02.11b/1Mbps	-95dBm	TBD	TBD
02.11b/11Mbps	-94dBm	TBD	TBD
02.11g/6Mbps	-91dBm	TBD	TBD
02.11g/54Mbps	-78dBm	TBD	TBD
02.11n_HT20 MCS0	-90dBm	TBD	TBD
02.11n_HT40 MCS7	-75dBm	TBD	TBD
nterfaces			
DIO 3.0	*1	*1	
ART	*1	*1	*1
TE coexistence	*2	*2	*2
T_EN	*1	*1	*1
VLAN_EN	*1	*1	*1
ntenna	WiFi & BT Antenna	WiFi & BT Antenna *2	WiFi & BT Antenna *2
ertification			
Certification	CE*/RoHS*/REACH*		

o: Optional *: Under Development

VV80

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W58: Must be worked together with SIM7600X-H.

W59: Must be worked together with SIM7800E.

W80: Must be worked together with SIM8200G.

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