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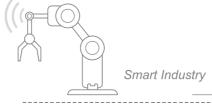


Linkedin: www.linkedin.com/company/simcom



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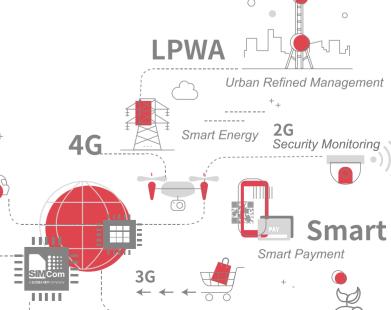




Smart Life

MODULES FOR A

CONNECTED WORLD



Smart Agriculture

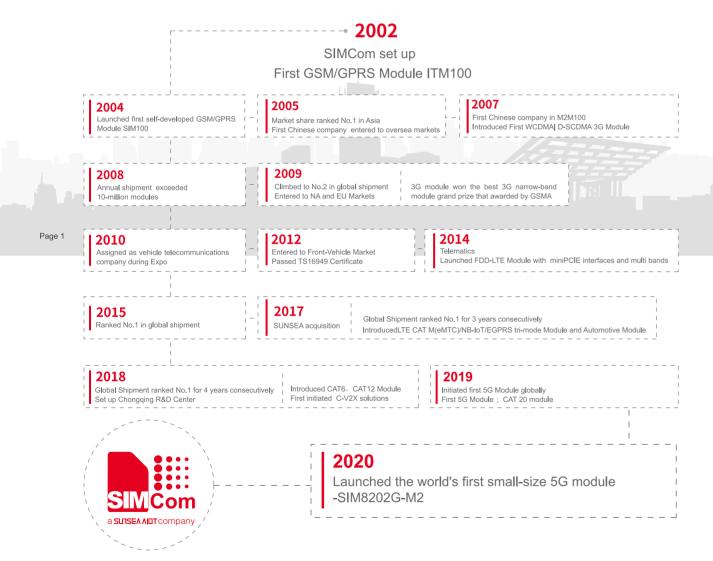




About SIMCom

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.



5G Module

Technolog				5G (Sub 6G & mmWave)	
Product		SIM8202G-M2	SIM8200EA-M2	SIM8200G	SIM8300G-M2
Picture		100000 HO	SMICHEANS CON SMICH	SIME2000	
Form Factor		M.2	M.2	LGA	M.2
Dimensions(mr	n)	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
Frequency Bands	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/B13 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 Feat	tures				
Supply Voltge F		3.135~4.4V	3.135~4.4V	3.3V~ 4.4V	3.135~4.4V
Power Consum (sleep)(mA)	ption	<5mA	<5mA	<5mA	TBD
Data Transfer					
nmWave			2.4Chac/DL\/500Mhac/LL\	2.4Chna/DL\/4Chna/LL\	7Gbps(DL)/3Gbps (UL)
Sub-6G		2.4Gbps(DL)/1Gbps (UL)	2.4Gbps(DL)/500Mbps (UL) (optional up to 4Gbps DL)	2.4Gbps(DL)/1Gbps (UL) (optional up to 4Gbps DL)	4Gbps(DL)/1Gbps (UL)
TE CAT 20+		1Gbps(DL)/200Mbps (UL)	1Gbps(DL)/200Mbps (UL) (optional up to 2Gbps DL)	1Gbps(DL)/200Mbps (UL) (optional up to 2Gbps DL)	2Gbps(DL)/200Mbps (UL)
Software Feat	ures		((-p	
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
ΓLS		SSL3.0/TLS1.0/TLS1.2	SSL3.0/TLS1.0/TLS1.2	SSL3.0/TLS1.0/TLS1.2	SSL3.0/TLS1.0/TLS1.2
OTMF		 (Sending and Receiving) 	 (Sending and Receiving) 	 (Sending and Receiving) 	 (Sending and Receiving)
OTA		•	•	•	•
/oLTE/CSFB/V	oNR*	•	•	•	•
Android RIL		Android C 0/7 0/9 0/0 0	Android 6 0/7 0/0 0/0 0	Android 6 0/7 0/9 0/0 0	Android 6 0/7 0/9 0/0 0
JSB Driver		Android 6.0/7.0/8.0/9.0 Microsoft Windows Win7/Win8/ Win10/Linux/Android	Android 6.0/7.0/8.0/9.0 Microsoft Windows Win7/Win8/ Win10/Linux/Android	Android 6.0/7.0/8.0/9.0 Microsoft Windows Win7/Win8/ Win10/Linux/Android	Android 6.0/7.0/8.0/9.0 Microsoft Windows Win7/Win8/ Win10/Linux/Android
RNDIS		Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10	Linux/Win7/Win8/Win10
NDIS		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
ивім		Win8/Win10	Win8/Win10	Win8/Win10	Win8/Win10
irmware Upgra	ade	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		•	•	•	•
PCIe		•	•	•	•
SPI				•	
RGMII SDIO3.0				•	
PMI					
ADC				•	
Antenna		*4	*6	*8	*14
Certification		7	U	U	14
Jorunication		RoHS/REACH/CCC/CTA/SRRC/	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		® (Silver Si	THE SECOND SECON	
Form Factor		LCC, 68PIN	LCC ,68PIN	LCC+LGA,77PIN	LGA, 77PIN
Dimensions(m	m)	24.0*24.0*2.6	24*24*2.3	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/E 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 114mA@ B5	0.8mA
	Max Power	138mA@ B5	12(Prefered band)	12(Prefered band)	114mA@ B5 12(Prefered band)
	stration Time(s)	12(Prefered band)	-108dB@eMTC -126dB@NB-IoT15KHz	-108dB@eMTC-126dB@NB-loT15KHz	
Receive Sensi		-108dB@eMTC; -126dB@NB-loT 15KHz			-108dB@eMTC-126dB@NB-loT15
LTE CAT.NB		34(DL)/66(UL)	136(DL)/150(UL)	136(DL)/150(UL)	127(DL)/158.5(UL)
LTE CAT.M1(F	(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				
Protocols		TCP/UDP/LWM2M/COAP	TCP/UDP/HTTP/HTTPS/TLS/DTLS/		TCP/UDP/HTTP/HTTPS/TLS/DTLS
VoLTE		/MQTT/FTP/HTTP/TLS/DTLS/NTP	PING/LWM2M/COAP/MQTT	PING/LWM2M/COAP/MQTT	PING/LWM2M/COAP/MQTT
GSM Voice		•	:	•	•
Embedded AT		_		•	•
FOTA		•		•	•
TLS		•	•	•	•
USB Driver		Microsoft Windows 2000/XP/Vista/Win7/Win8/Win10/Linux	Microsoft Windows 2000/XP/Vista/ Win7/Win8/Win10/Linux		
Firmware Upg	rade	USB/FOTA	USB/FOTA	USB/FOTA	USB/FOTA
Interfaces					
UART	ull Function Uart	•	•	•	•
F	low Control Uart	•	•	•	•
USB		•	•	•	•
PCM	ar.	•		•	•
Status Indicato GPIO	л	•	•	•	•
SPI		•		•	•
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 G: RoHS/REACH/CCC/RCM/CE(RED)/ GCF/Deutsche Telekom/FCC/IC/Anatel	E: RoHS/REACH/CE(RED)/FCC*/ Anatel* G: RoHS/REACH/JATE/Telec/RCM/ CE(RED)/GCF/Orange*/TIM*/ Deutsche Telekom/Telefonica*/ Vodafone*/FCC/PTCRB/AT&T/ Verizon*/T-mobile/US Cellular*/IC	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/Rt CE(RED)/GCF/FCC/PTCRB/ / AT&T/Verizon*/T-mobile*/ US Cellular*/IC

Page 3

o : Optional * : Under Development

LPWA	Module				
Technolo	qv	NB-IoT&GNSS	NB-loT		
Product	••	SIM7060G	SIM7060R	SIM7020E	SIM7020G
Picture		(0°0466 = =000-0000-0000 ========================	DOWN TO THE PROPERTY OF THE PR	₹€ ₩	
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		40°C~+95°C	40°C. 19E°C	40°C-+95°C	40°C~+95°C
Temperature	aturos	-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
ouppi) ronge	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	itivity	-126dB@NB-loT 15KHz	-126dB@NB-loT 15KHz	-126dB@NB-IoT 15KHz	-126dB@NB-loT 15KHz
Data Transfe					
LTE CAT.NB	(Kbps)	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(EDGE(Kbps)	Kbps)				
GPRS(Kbps)					
SMS			•	•	•
	-4a	•	•	•	•
Software Fea	atures	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 A	Г	•	•	•	•
FOTA		•	•	•	•
TLS		•	•	•	•
USB Driver					
Firmware Upo	grade	UART/FOTA	UART/FOTA	UART/FOTA	UART/FOTA
Interfaces					
UART	Full Function Uart Flow Control Uart	•	•	•	•
USB PCM		•	•	•	•
Status Indicat	or	•	•	•	•
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

I LTE-A Module

Technolo	gy		LTE CAT12	LTE CAT6
Product			SIM7912G-M2	A7906E-M2
Picture			Bits manager and m	Mill A Table 1
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/B17/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 Fo	eatures			
Supply Voltg	e Range		3.135V~ 4.4V, 3.3V(typ)	3.1V~ 4.4V, Typ: 3.3V
Power Cons		eep)(mA)	3.0	TBD
Data Transf	er			300Mbps(DL)/50Mbps (UL)
LTE CAT 6				oddinapo(BE)/odinapo (GE)
LTE CAT 12			600Mbps(DL)/75Mbps (UL)	
Software Fe	atures		TOD/ID/ID/A/ID/O/AA II: DDD/ETD/ETDO	
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*
FOTA			•	•
Android RIL			Android 2.3/4.0/5.0/6.0/7.0	Android 6/7/8/9*
USB Driver			Microsoft Windows2000/XP/Vista/Win7/Win8/ Win10/Linux /Android	Microsoft Windows2000/XP/Vista/Win7/Win8/ 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	,		•	
Oer timeation				000/071/0000/07/777
Certification			RoHS/REACH/JATE/Telec/RCM/CE(RED)	CCC/CTA/SRRC/CE(RED)*

*: Under Development

I LTE-A Module

Technolo	gy		LTE CAT6		
Product			SIM7906SA-M2	SIM7906E-M2	SIM7906E-PCIE
Picture			EMPERIOR - AND STREET - AND STR	ME SUPPOSE THE SU	THE SINCTONE -PCAE
orm Factor			M.2	M.2	miniPCIe
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	e Range		3.135V~ 4.4V,3.7V(typ)	3.135V~ 4.4V,3.3V(typ)	3.1V~ 4.4V, Typ: 3.3V
Power Cons		ep)(mA)	2.4	2.4	2.4
Data Transfo LTE CAT 6	er		200Mbps/DL)/75Mbps /LIL)	300Mbps(DL)/75Mbps (UL)	300Mbps(DL)/75Mbps (UL)
LTE CAT 12			300Mbps(DL)/75Mbps (UL)	SOUNDPS(DE), FONDPS (DE)	Sootvidps(DE)/1 Sividps (OE)
Software Fe					
Protocol	atures		TCP/IP/IPV4/IPV6/Multi-PDP/DNS	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS /	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/
LS				HTTP/HTTPS/DNS	HTTP/HTTPS/DNS*
OTA			SSL3.0/TLS1.0/TLS1.2	SSL3.0/TLS1.0/TLS1.2	SSL3.0/TLS1.0/TLS1.2
ndroid RIL			Android 6/7/8/9	Android 2.3/4.0/5.0/6.0/7.0	Android 6/7/8/9
SB 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
irmware Up	ograde		USB/FOTA	USB/FOTA	USB/FOTA
iterface					
SB3.0			*1	*1	*1
CIE			*1	*1	*1
СМ			*1	*1	*1
PIO			*1	*1	*1
2C			*1	*1	*1
ntenna			*3	*3	*3
ertification	1				

^{*:} Under Development

LLTE Module

Technolo	gy	LTE CAT4	LTE CAT3	LTE CAT1
Product		SIM7600X-H	SIM7100X	A7600E
Picture		SDYSERE Find the state of the	SPOTIONE Finds along Finds al	A Y COCK F A 15 - COCK - COCK A 15 - COCK - COCK A 16 - COCK A
Form 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
Frequency 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	eatures	40 0 700 0	40 0 100 0	10 0 100 0
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	er	450/DL\/50/LL\	400/DL\/50/LL\	40/DL)/E/LIL)
LTE(Mbps) NCDMA/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	(Kups)	●	≥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
ΓLS		•	• •	•
File System		•	•	•
Audio Record	l/Play	0	0	0
TTS		0	0	0
OTMF		0	0	0
LBS		•	•	•
FOTA Jamming 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
WWAN		•		•
ECM		•	•	•
MBIM		Win8/Win10	Win8/Win10	
NDIS		Linux/Windows 7/8/10	Linux/Windows 7/8/10	
Embedded Al		● USB/FOTA	LISR/EOTA	O USB/FOTA
Firmware Upo I nterfaces	grade	OGD/FOTA	USB/FOTA	USB/FUTA
SIM Card		1.8V/3.0V	1.8V/3.0V	1.8V/3.0V
JART		•	•	•
JSB PCM		•	•	•
ADC		•	•	•
GPIO		•	•	•
SD Card		•	•	•
SPI		0	•	
2C Diversity Rec	eiver	•	•	•
Certification				
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/Verizon NA: RoHS/REACH/GCF/FCC/PTCRB/AT&T/Verizon/ T-mobile/US Cellular*/IC G: RoHS/REACH/GCC/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

America (AT&T) WCDMA: B2/B5 WCDMA V(North America V(North America V(v(reizon) -E(EuropeMiddle East/AficarKorea Thrailand -E(EuropeMiddle East/AficarKorea Thrailand -A(Mew Zealand Australia/South America -JC/JE(Japan) -JC/JE(Japan) -JC/JE(Japan) -G(Global) -G(Global) -G(Global) -A(Morth America -America -A(Morth America -America -A(Morth America -A(Morth America -A(Morth America -A(Morth America -A(Morth America -A(Morth America -C(China -C(LGA, 68PIN *2.75
Picture	LGA, 68PIN *2.75
Dimensions(mm) 30.0°30.0°2.9 24.0°27.8 24.0°27.8 3.0°30.0°30.0°2.9 24.0°27.8 4 4 4 4 4 4 4 4 4	24.0°24.0°2.3 3.08 B2/B4/B12 B2/B5 B4/B13 B1/B3/B7/B8/B20 B1/B8 GSM: 900/1800 MHz LTE-FDD: B1/B2/B3/B5/B7/B8/B28/B1/B5 B1/B3/B5/B7/B8/B28 B1/B5 EDD: B1/B18/B19/B26
A-A(North America (AFAT)	3.08 B2/B4/B12 B2/B5 B4/B13 B1/B3/B7/B8/B20 B1/B8 B1/B8 B1/B5 B1/B3/B5/B7/B8/B28 B1/B5 B1/B3/B5/B7/B8/B28 B1/B5 B1/B3/B5/B7/B8/B28 B1/B5 B1/B3/B5/B7/B8/B28 B1/B5 B1/B3/B5/B7/B8/B26
-A(North America (AT&T) -Vin/North America (Nerborn) -Index (Nerborn) -E(EuropeMiddle (Nerborn) -E(EuropeMiddle (Nerborn) -E(EuropeMiddle (Nerborn) -E(EuropeMiddle (Nerborn) -E(EuropeMiddle (Tar-TDD: B3/8/B40/B41 -SA(New Zealand (Asarbal-South America) -SA(New Zealand (Asarbal-South America) -SA(New Zealand (Asarbal-South America) -JC/JE(Japan) -JC/J	B2/B4/B12 B2/B5 B4/B13 B1/B3/B7/B8/B20 B1/B8 GSM: 900/1800 MHz LTE-FDD: B1/B3/B5/B7/B8/B28 B1/B5 B1/B
America (ATAT)	B2/B5 B4/B13 B1/B3/B7/B8/B20 B1/B8 GSM: 900/1800 MHz LTE-FDD: B1/B3/B5/B7/B8/B20 GSM: 900/1800 MHz LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66 GSM: 850/900/1800/1900 MHz
-V(North America (Verizon) -V(North America (Verizon) -Vericonophidotila	B4/B13 B1/B3/B7/B8/B20 B1/B8 B1/B8 B1/B8/B5/B7/B8/B28 B1/B3/B5/B7/B8/B28 B1/B5 EDD: B1/B1/B1/B1/B2/B3/B4/B5/B7/B8/B26 LTE-FDD: B1/B3/B5/B7/B8/B20 GSM: 900/1800 MHz LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66 GSM: 850/900/1800/1900 MHz
Frequency East/AfricalKorea LTE-FDD: B1/B3/B5/B7/B8/B20 LTE-FDD: B38/B40/B41 WCDMA SM: 900/1800 MHz LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE-FDD: B40 WCDMA: B1/B2/B5/B8 LTE-FDD: B40 WCDMA: B1/B2/B5/B8 LTE-FDD: B40 WCDMA: B1/B2/B5/B8 LTE-FDD: B40 WCDMA: B1/B2/B5/B8/B6/B6/B1 JET-FDD: B41/B3/B3/B3/B6/B5/B1/B1/B1/B1/B1/B1/B1/B1/B1/B1/B1/B1/B1/	B1/B3/B7/B8/B20 B1/B8 B1/B3 B5/B7/B8/B20 GSM: 900/1800 MHz LTE-FDD: B1/B3/B5/B7/B8/B20 GSM: 900/1800 MHz LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66 GSM: 850/900/1800/1900 MHz EDD: B1/B18/B19/B26
Terquency East/Africa/Korea Tre-TDD: 838/840/0841 WCDMA B1785/88 GSM: 900/1800 MHz GSM: 90 G	B1/B8
AlastralarSouth LTE-TDD: B40 WCDMA: B1/B2/B5/B8 CTE-TDD: B40 WCDMA GSM: 850/900/1800/1900 MHz JC: LTE-JE: LTE-JD: B34/B36/B36/B3/B19/B41/B41 WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM: 850/900/1800/1900MHz WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM: 850/900/1800/1900MHz WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM: 850/900/1800/1900MHz WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM: 850/900/1800/1900MHz WCDMA: B1/B2/B4/B5/B1/B1/B1/B1/B1/B1/B1/B1/B1/B1/B1/B1/B1/	B1/B5 GSM: 850/900/1800/1900 MHz FDD: B1/B18/B19/B26
LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28/B86 LTE-TDD: B34/B33/B39/B40/B41 WCDMA: B1/B2/B4/B5/B5/B28/B8/B19 GSM: 850/900/1800/1900MHz -NA(North America) B26/B66/B71 LTE-FDD: B2/B4/B5/B12/B13/B14/B25/B26/B66/B71 LTE-TDD: B41 LTE-FDD: B2/B4/B5/B12/B13/B14/B25/B26/B66/B71 LTE-TDD: B41 LTE-FDD: B41	
Age	DD: B1/B3/B8
Fig.	
America	
GNSS	
Comparison	LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/
Temperature	B39/B40/B41 GSM: 900/1800 MHz
Supply Voltge Range	
Supply Voltge Range 3.4V~ 4.2V 3.4V~ 4.2V 3.4V~ 4.2V 2.8@GSM,BS_PA_MFRMS=2 2.8@GSM 3.3@WCDMA, DRX=9 2.3@LTE 3.3@LTE 3.3@WCDMA, DRX=9 2.3@LTE 3.3@LTE 3.3@WCDMA, DRX=9 2.3@LTE 3.3@WCDMA, DRX=	-40 C - 100 C
Data Transfer	3.4V~ 4.2V
Data Transfer S.S.G.W.Colini, Dr.X9 Z.S.G.ETE Z.S.G.	,BS_PA_MFRMS=2 3.5@GSM,BS_PA_MFRMS=2
TE(Mbps)	MA, DRX=9 1.6@LTE 3.8@LTE
236.8(DL)/236.8(UL) 236.8(DL)/236.8(DL) 236.8(DL)/	JL) 10(DL)/5(UL)
Software Features Software Features	6(UL)
Company	236.8(UL) 236.8(DL)/236.8(UL)
TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/	•
HTTP/HTTPS/DNS	/4/IPV6/Multi-PDP/FTP/FTPS/ TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/
Audio Record/Play	PS/DNS HTTP/HTTPS/DNS •
DTMF	•
DTMF	0 0
### Part	0
Android RIL	•
Android RIL Android RIL Android RIL Android S.0/6.0/7.0/8.0/9.0 Android RIL Microsoft Windows 7/8/10 Linux/Android WWAN CCM MBIM Win8/Win10 Linux/Windows 7/8/10 Lin	•
Microsoft Windows 7/8/10	.0/6.0/7.0/8.0/9.0 Android 5.0/6.0/7.0/8.0/9.0
Linux/Android Win8/Win10 Win8/Win10 Linux/Windows 7/8/10 Linux/Windows 7/	Windows 7/8/10 Microsoft Windows 7/8/10
● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	roid Linux/Android
NDIS	•
Embedded AT Firmware Upgrade	10
USB/FOTA	dows 7/8/10
Interfaces 1.8V/3.0V 1.8V/3.0V JART ● ● JSB ● ● PCM O O ADC ● ● GPIO ● ●	O USB/FOTA
USB	
USB	1.8V/3.0V
PCM	•
GPIO • •	
	0
JD Oald ▼	0
SPI o	0
2C • •	•
Diversity Receiver 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/RCM/Telstra/CE(RED)/GCF/Anatel NA: RoHS/REACH/RCM/Telstra/CE(RED)/GCF/Anatel JC: RoHS JE: RoHS SA: RoHS SA: RoHS G: RoHS/REACH/CE(RED)/JATE/Telec/FCC/RCM/ V: RoHS/F	

| Smart Module

Technolog	ЭУ	Smart Module	SIMSOROY
Product		SIM8905X	SIM8950X
^D icture		SIMSONSE From state From state to the stat	SINGSSAC +
Form Factor		LCC+LGA 210PIN	LCC+LGA 210PIN
Dimensions(n	nm)	40.5*40.5*2.8	44.1*45.6*2.8
Weight(g)	,	10.6	12.5
, (o,	-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	LTE-FDD: B2/B4/B5/B12/B13/B14/B25/B26 LTE-TDD: B41 WCDMA: B2/B4/B5 EDGE/GPRS/GSM: 850/1900 MHz
Frequency Bands	-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/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 Pr	ocessor	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 Transfe	r		
TE(Mbps)		LTE CAT 4 - 150(DL)/50(UL)	LTE CAT 4 - 150(DL)/50(UL)
,	VHSPA+(Mbps)	42.2(DL)/5.76(UL)	42.2(DL)/5.76(UL)
TD-SCDMA(N		2.8(DL)/2.2(UL)	2.8(DL)/2.2(UL)
CDMA EV-DC	. ,	3.1(DL)/1.8(UL)	3.1(DL)/1.8(UL)
CDMA 1xRTT		153.6(DL)/153.6(UL)	153.6(DL)/153.6(UL)
GPRS(Kbps)	(пора)	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		WAX 230(DE)/230.0(OE)	Wax 230(DE)/230.0(OE)
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 Perform	nance	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 4x/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 VRC-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
nterfaces			
JART		*2	*4
JSB		USB2.0	USB3.0/2.0/Type-C/OTG
JIM		*2	*2
GPIO		At Least 21*GPIO	At Least 22*GPIO
SD Card		•	•
SPI		•	•
2C		*3	*3
ADC		*1	*1
Notor Drive		*1	0
VLED Sink			0
lash Drive			0
ntenna		Main&Diversity&GNSS&Wi-Fi/BT ANT	Main&Diversity&GNSS&Wi-Fi/BT
oftware Fea	itures		
Operating Sys	stem	Android 5.1/7.1/8.1/Linux 4.9	Android 7.1/8.1
JSB Driver		Microsoft Windows	Microsoft Windows
		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 Funct	ion	•	0
Firmware Upg	grade	USB/OTA/TF card	USB/OTA/TF card
Certification			
Certification		A: RoHS/REACH/FCC/PTCRB/IC/AT&T E: RoHS/REACH/CE(RED)	RoHS/REACH/CE(RED)

o:Optional *: Under Development

Technology	LTE CAT4	C-V2X
Product	SIM7800E	SIM8100
Todaot		
Dist	ESIM7800E	N SIM8100
Picture	SN.D1000000000000000000000000000000000000	10-12-100AB
	100cm	
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
	LTE-FDD: B1/B3/B5/B7/B8/B20 LTE-TDD: B38/B40/B41	
Frequency Bands	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	5.000	
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)	TELL MORROS IT O VENT O O MORRO
CDMA EV-DO(Mbps)	3.1(DL)/1.8(UL)	
EDGE(Kbps)	236.8(DL)/236.8(UL)	
Software Features	TCP/IP/IPV4/IPV6/MultiPDP/FTP/FTPS/HTTP/ HTTPS/DNS/SMTP/	
Protocol	SMTPS/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 TLS	•	N/A 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	SELinux/Trustzone/Secure boot	N/A
Routing policy	4G,WIFI and Ehternet 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	• LICE /FOTA	N/A
Firmware Upgrade Wi-Fi	USB /FOTA 2.4G/5G(with W59)	N/A N/A
nterfaces	2.40/30(Will W33)	IV/A
SGMII	10M/100M/1000M Ehternet	N/A
JART	3*UART	2*UART
JSB	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
GPI0	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
SPI		up to 50MHz DDR(1.8/2.85V).1-bit or 4-bit SD card up to 200MHz SDR
	1*SPI	1*SPI
2C	1*I2C	N/A
Antenna	1*Main&1*Diversity&1*GNSS	2*V2X&1*GNSS
Certification		
Certification	RoHS/REACH/CE(RED)*	

I WCDMA/HSPA/HSPA+ Module

WCDM	A/HSPA/	HSPA+ Module			
Technolo	gy	WCDMA/HSDPA			
Product		SIM5320X			
Picture		To continue to the state of the			
Form Factor		LCC, 80PIN			
Dimensions(n	nm)	30.0*30.0*2.9			
Weight(g)	A (A) (I	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					
Supply Voltge		3.4V~4.2V			
Power Consu		2.3@GSM, DRX=9 2.7@WCDMA, DRX=8			
Data Transfe WCDMA/HSF		2 6Mhna/DL\ 294Khna/HL\			
GPRS (Kbps		3.6Mbps(DL) 384Kbps(UL) 85.6(DL)/85.6(UL)			
EDGE (Kbps		236.8(DL)/236.8(UL)			
SMS		•			
CSD		•			
Software Fea	atures				
Protocol		TCP/IP/FTPS/HTTP/HTTPS/SMTP/DNS			
eCall					
MMS		•			
TLS File System					
Audio Record	/Plav				
TTS	,				
DTMF		0			
LBS		•			
FOTA		•			
Jamming Det	ection	•			
Network Scar	ining	•			
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 Al Firmware Upg		● USB			
Interfaces	jrado				
UART		•			
USB		•			
SIM		1.8V/3.0V			
PCM		0			
ADC		At Least 7*CDIO			
GPIO SD卡		At Least 7*GPIO			
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

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

JE: RoHS/REACH/Telec/JATE/Softbank

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

o: Optional *: Under Development

GSM/GPRS Module

Technology	GSM/GPRS		
Product	SIM800C	SIM800F	SIM800H
Picture		GONDOOF A many and the state of the state o	CE MAN
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	1.30@GSM, DRX=2	1.50@GSM, DRX=2
Data Transfer	0.90@GSM, DRX=9	0.85@GSM, DRX=9	0.90@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	SSIS (DEMOE)	0.0 (BEUCE)	55.5 (DEMOE)
Protocols	TCP/UDP/HTTP/FTP/	TCP/UDP/HTTP/FTP/	TCP/UDP/HTTP/FTP/
	POP3/SMTP/PPP	POP3/SMTP/PPP	POP3/SMTP/PPP
MMS	•	•	•
rLS	0	•	0
Audio Record/Play	•	•	•
ITS	•	•	0
DTMF	•	•	•
LBS	0	0	0
Jamming Detection	•	•	•
Network Scanning	•	•	•
MUX	•	•	•
Embedded AT	0	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
nterfaces			
JART	•	•	•
JSB	•	•	•
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
			•
2C Cortification		•	•
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 ICASA/FCC/PTCRB/Anatel

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

o: Optional *: Under Development

| GSM/GPRS Module

o: Optional *: Under Development

	COLUCTO	COMPANY	
Technology Product	GSM/GPRS SIM800C-DS	GSM/GPRS&GNSS SIM868	SIMS68E
Toduct	SIMOUNC-DO	JIMIOUO	SIM868E
Picture	CC MANAGEMENT OF THE PARTY OF T	STREET NOT THE PROPERTY OF THE	CONTRACTOR OF THE PROPERTY OF
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
Weight(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 Power Consumption(mA)	3.4V-4.4V 1.60@GSM, DRX=2 0.93@GSM, DRX=9	3.4V~4.4V	3.4V~ 4.4V 1.42@GSM, DRX=2 0.86@GSM, DRX=9
Data Transfer	0.33@GGINI, DIOC-3		0.00@G3N, DIXX-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/ POP3/SMTP/PPP	TCP/UDP/HTTP/FTP/ POP3/SMTP/PPP	TCP/UDP/HTTP/FTP/ POP3/SMTP/PPP
MMS	•	• •	•
TLS	0	0	0
Audio Record/Play	•	•	•
TTS	0	0	0
DTMF	•	•	•
LBS	0	0	0
Jamming Detection	•	•	•
Network Scanning	•	•	•
MUX	•	•	•
Embedded AT	0	٥	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	٥
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
I2C	•	•	•
Certification			
Certification	CE/RoHS/REACH	RoHS/REACH/CCC/CTA/SRRC/CMCC/ CE(RED)/GCF/Deutsche Telekom/ICASA/FCC	CE/RoHS/REACH/BQB/Deutsche Telekom

[|] GNSS Module

Technology		GNSS				
Product		SIM28M	SIM28ML	SIM68M	SIM68ML	
Picture					Electric Control of the Control of t	
Form Factor		LCC, 18PIN	LCC, 18PIN	LCC, 18PIN	LCC, 18PIN	
Dimensions(r	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℃~+85℃	
Electrical Fe	atures					
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	8µ8	14μΑ	14uA	
GNSS						
GNSS		GPS	GPS	GPS/GLONASS/Galileo/QZSS	GPS/GLONASS/Galileo/QZSS	
A-GPS		•		•	•	
Channel Num	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	
TTFF Time to	Warm Start	30s	30s	26s	26s	
First Fix)	Hot Start	<1s	<1s	<1s	<1s	
A coursou	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 I	Rate	10Hz	5Hz	10Hz	10Hz	
Baud Rate(de	efault)	9600/115200	9600/115200	9600/115200	9600/115200	
Jamming Det	tection	•		•	•	
Anti-jamming	ı	•	•	•	•	
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						

o: Optional *: Under Development

| GNSS Module

Technology		GNSS			olused.
Product		SIM33ELA	SIM68E	SIM68D	SIM68I
Picture			Charles	Comments of Commen	Company Compan
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	14µA	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)	•	•	•	•
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		. ™SEAL		O SMISSEA	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	24μΑ	400μΑ	400μΑ	
	Backup	13µA		АµА	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		•	•	•	•	
Interfaces						
UART		•	•	•	•	
Reset						
Time 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: Optional * : Under Developr

| Wi-Fi Module

echnology roduct	Wi-Fi W58	W59	W80
Toduct	**35	*****	*****
icture	100 96.00 100 90.00 100 90.00	76	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
ieneral 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
supply Voltage	3.2V~ 3.4V	3.2V~ 3.4V	3.3V ~ 4.25V
VLAN Standard	IEEE 802.11 b/g/n	IEEE 802.11a/b/g/n/ac	IEEE 802.11a/b/g/n/ac/ax
Modulation 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)		Max. 433.3Mbps	May 4 775 Chan
02.11ax_HT80 (Mbps) T 4.1 (Mbps)	Max. 24	Max. 24	Max.1.775Gbps
ransmitting Power			
02.11b/11Mbps	18dBm	TBD	TBD
02.11g/54Mbps	15dBm	TBD	TBD
		TDD	
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

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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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