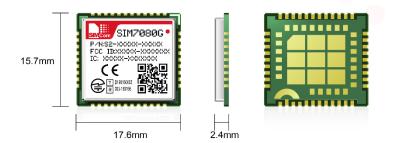


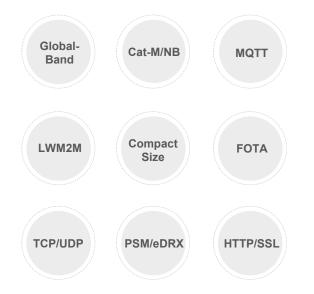
V: 2020.03 SIM7080 Series

SIMCom LPWA Module



Product Description

The SIM7080 series is the LPWA module which supports wireless communication modes of Cat-M/Cat-NB.



The SIM7080 series adopts LCC and LGA form factor and has a compact size of 17.6mm*15.7mm which makes it ideal for compact products design.

The SIM7080 series has powerful expansibility with abundant interfaces including UART, GPIO, PCM, SPI, I2C etc. The SIM7080 series is designed for applications that need low latency, low throughput data communication in a variety of radio propagation conditions. Due to the unique combination of performance, security and flexibility, this module is ideally suited for M2M applications, such as metering, asset tracking, remote monitoring, E-health etc.

Key Benefits

- With Power Saving Mode(PSM) and Extended Discontinuous Reception(eDRX), the SIM7080 series can extend battery life up to 10 years
- The SIM7080 series provides deeper coverage enhancement compared to GSM
- The form factor and AT commands of SIM7080 series are compatible with SIM7020/SIM868

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Cat.Wi Cat.Wi Cat.Wi Cat.Wi Cat.Wi B25/B26/B27/B28/B66/B85 B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B2// B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B2// B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B2// B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B2// Cat.Wi Class 5 (Typ. 21dbm) GNSS 0 0 GNSS 40°C ~ +85°C 40°C ~ +85°C Electrical Features 40°C ~ +85°C 40°C ~ +85°C Electrical Features 2.7~ 4.8 3.2 Power 0/ Consumption @PSM(uA) 3.2 3.2 @Belep(MA) 0.6 0.6 0.6 @Ide(mA) 0.6 0.6 0.6 Cat.NB (Kbps) 589(DL)/1119(UL) 10 10 Data Transfor 127(DL)/158.5(UL) 127(DL)/158.5(UL) 127(DL)/158.5(UL) Cat.NB (Kbps) 127(DL)/158.5(UL) 127(DL)/158.5(UL) 127(DL)/158.5(UL) Forda Protocol USB/FOTA Forda Forda USB/FOTA	Product		SIM7080G	SIM7080G-M
Cat.M Frequency Bands Cat.M Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.Cat.NB Cat.Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.NB Cat.Cat.NB Cat.Cat.NB Cat.Cat.NB Cat.Cat.NB Cat.Cat.Cat.NB Cat.Cat.Cat.Cat.Cat.Cat.Cat.Cat.Cat.Cat.	Form Factor		LCC+LGA, 77PIN	LCC+LGA, 77PIN
Cate Mile B25/B20/B27/B20/B60/B36 B25/B20/B27/B20/B60/B36 RF Power Class Cate AB B1/B2/B30/B19/B30/B19/B30/B20/B20/B20/B20/B20/B20/B20/B20/B20/B2	Dimensions(mm)		17.6*15.7*2.3	17.6*15.7*2.3
Frequency Bains Cat.NB Bit/B2/R3/R44/ES/R8/R1/98/20/R20/F2 Cat.NB Class 5 (Typ. 21 dbm) Class 5 (Typ. 21 dbm) SNSS 0 0 SNSS 40°C - 485°C 40°C - 485°C SNSS 40°C - 485°C 40°C - 485°C Supply Voltage Rander 27-4.8 27-4.8 Supply Voltage Rander 27-4.8 2.7-4.8 Supply Voltage Rander 0.6 0.6 Onseumption 0.6 0.6 Onseumption 0.6 0.6 Oract Transfer SegloLy/1119(UL) 589(0L)/1119(UL) Cat-NB (KDps) SegloLy/1119(UL) 127(0L)/198.3(UL) Cat-NB (KDps) TOP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PINGY TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PINGY Software Fastures USB/FOTA USB/FOTA USB/FOTA Cot.ND Cot.ND SegloLy/1119(UL) USB/FOTA Software Fastures USB/FOTA USB/FOTA USB/FOTA Software Fastures USB/FOTA SegloL SegloL Software Fastures		Cat-M		B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/
SNSS v v 40° - 40° - 40° - 40° - 485° Temperature 40° - 485° Electrical Features Supply Voltage Rarge(V) 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-4.8 2.7-	Frequency Bands	Cat-NB	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/	B25/B26/B27/B28/B66/B85
Temperature 40°C + 48°C Eloctrical Features 40°C + 48°C Eloctrical Features 2.7-4.8 Supply Voltage Range (V) 3.2 @PSM(uA) 3.2 @Sisep(mA) 0.6 @Gisep(mA) 0.8 @Gisep(mA) 0.8 @Gisep(mA) 0.8 @Gisep(mA)	RF Power Class		Class 5 (Typ. 21dbm)	Class 5 (Typ. 21dbm)
Electrical Features Supply Voltage Range (V) 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8 2.7~4.8	GNSS		0	0
Supply Voltage Range (V) 2.7~4.8 2.7~4.8 Power Consumption @PSM(uA) @die(mA) 3.2 3.2 @Gisep(mA) @die(mA) 0.6 0.6 Octa Transfer 0 10 Data Transfer 27(DL)/150.5(UL) 569(DL)/1119(UL) Cat.MG (Kbps) 569(DL)/1119(UL) 569(DL)/1119(UL) Software Features 727(DL)/156.5(UL) 127(DL)/156.5(UL) Protocol TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LVM/2M/COAP/MQTT TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LVM/2M/COAP/MQTT FOTA • • Fermware Upgrade USB/FOTA USB/FOTA USB • • OC • • SPI • • Certification • • Certification • • Certification * •	Temperature		-40°C ~ +85°C	-40°C ~ +85°C
Power Consumption@PSM(uA) @Sieep(mA) 0.63.23.2@Sieep(mA) @did(mA)0.60.6@did(mA)1010Data TransforCat-M (Kbps)539(DL)'1119(UL)539(DL)'1119(UL)Cat-NB (Kbps)127(DL)'158.5(UL)127(DL)'158.5(UL)Colspan="2">CP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PING/ LWM2/WCOAP/MQTTCP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PING/ LWM2/WCOAP/MQTTCP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PING/ LWM2/WCOAP/MQTTCP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PING/ LWM2/WCOAP/MQTTCP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PING/ LWM2/WCOAP/MQTTCP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PING/ LWM2/WCOAP/MQTTCP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PING/ LWM2/WCOAP/MQTTCP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PING/ LWM2/WCOAP/MQTTCP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PING/ LWM2/WCOAP/MQTTCP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PING/ LWM2/WCOAP/MQTTCP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PING/ LWM2/WCOAP/MQTTCP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PING/ LWM2/WCOAP/MQTTCP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PING/ LWM2/WCOAP/MQTTCP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PING/ LWM2/WCOAP/MQTTCP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PING/ LWM2/WCOAP/MQTTCP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PINTCP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PINTCP/UDP/HTTP//TTPS/FTP/TLS/DTLS/PINTCOLSFOTCP/UDP/HTTP//TTP//TTP//TTP//TTP//TTP//TTP//T	Electrical Features			
Power Consumption @Sleep(mA) @Ide(mA) 0.6 0.6 Data Transfer 10 0 Cat-M (Kbps) 589(DL)/1119(UL) 589(DL)/1119(UL) Cat-M (Kbps) 127(DL)/158.5(UL) 127(DL)/158.5(UL) Software Features 127(DL)/158.5(UL) 127(DL)/158.5(UL) Protocol CP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LWM2W/COAP/MQTT CP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LWM2W/COAP/MQTT COTA • • Cota Software Upgrade 0 • USB/FOTA USB/FOTA USB/FOTA SiM Card 1.8v 1.8v JBR • • Com/Lac • • Com/Lac • • SiB Card 1.8v 1.8v JBR • • Com/Lac • • SiB Card • •	Supply Voltage Range(V)		2.7~ 4.8	2.7~ 4.8
Consumption Got Consumption Consumption Consumption Consumption @iddle(mA) 10 10 Data Transfer 589(DL)/1119(UL) Cat-M (Kbps) 589(DL)/1119(UL) Software Features 127(DL)/158.5(UL) Protocol TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LWM2M/COAP/MQTT TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LWM2M/COAP/MQTT FOTA • • Fortace • • Firmware Upgrade USB/FOTA USB/FOTA SIM Card 1.8V 1.8V JSB • • Consumption • SPCM/I2S • • ADC • • SPI • • Cartification • • Regulatory CC/C/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RehS/REACH • Partice AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/ AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/		@PSM(uA)	3.2	3.2
Consumption (gldle(mA)) 10 Data Transfer 588(0L)/1119(UL) 588(0L)/1119(UL) Cat-M (Kbps) 588(0L)/1119(UL) 588(0L)/1119(UL) Cat-NB (Kbps) 127(DL)/158.5(UL) 127(DL)/158.5(UL) Software Features 127(DL)/158.5(UL) 127(DL)/158.5(UL) Protocol CP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LWM2M/COAP/MQTT CP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LWM2M/COAP/MQTT FOTA - - Embedded AT 0 - Firmware Upgrade USB/FOTA USB/FOTA USB/FOTA 1.8V 1.8V UART 1.8V 1.8V USB 0 0 PCM/I2S 0 0 SPI 0 0 Certification 0 0 Regulatory FCC/I/C/C/FRCM/JATE/TELEC/NCC'/GCF'/ FCC/I/C/C/FRCM/JATE/TELEC/NCC'/GCF'/			0.6	0.6
Data Transfer Cat-M (Kbps) 589(DL)/1119(UL) Cat-NB (Kbps) 127(DL)/158.5(UL) Software Features 127(DL)/158.5(UL) Protocol TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LWM2M/COAP/MQTT TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LWM2M/COAP/MQTT FOTA • • FotA • • Firmware Upgrade USB/FOTA USB/FOTA INBERGEN • • SIM Card 1.8V 1.8V UJART • • SPC • • SPI • • 2C • • Embedded SIM o • Octocol • • SPI • • 2C • • SPI • • 2C • • Regulatory FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RoH5/REACH FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/ROH5/REACH	Consumption		10	10
Cat.M (Kbps) 589(DL)/1119(UL) 589(DL)/1119(UL) Cat.NB (Kbps) 127(DL)/158.5(UL) 127(DL)/158.5(UL) Software Features ICP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LWM2/WCOAP/MQTT TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LWM2/WCOAP/MQTT FOTA • • Embedded AT • • Firmware Upgrade USB/FOTA USB/FOTA UART • • UART • • ADC • • SPI • • Izc • • Embedded SIM • • Cattification • • Regulatory CC//C/C/E/RCM/JATE/TELEC/NCC'/GCF'/ FC///C/C///C///TMOBILE-US'/SPRINT'/				
Cat-NB (Kbps) 127(DL/158.5(UL) 127(DL/158.5(UL) Software Features ICP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LWM2M/COAP/MQTT ICP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LWM2M/COAP/MQTT Forda • • Forda • • Forda • • Embedded AT • • Firmware Upgrade USB/FOTA USB/FOTA JART 1.8V 1.8V JJSB • • PCM/I2S • • ADC • • SPI • • embedded SIM • • ccutification • • Regulatory EC///C/CE//RCM/JATE/TELEC/NCC'/GCF'/ PTCRB'/RoHS/REACH EC////CE//RCM/JATE/TELEC/NCC'/GCF'/ PTCRB'/RoHS/REACH			580/DL \/4440/LU \	590/DL \/1110/LL \
Software Features Protocol TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LWM2W/COAP/MQTT TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LWM2W/COAP/MQTT FOTA • FOTA • Embedded AT • Firmware Upgrade USB/FOTA USB/FOTA USB/FOTA Interfaces • SIM Card 1.8V UJART • USB • PCM/I2S • ADC • SPI • • • Embedded SIM • o • Certification • Regulatory EC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RehS/REACH FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RehS/REACH				
Protocol TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LWM2M/COAP/MQTT TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LWM2M/COAP/MQTT FOTA • • Embedded AT • • Embedded AT • • Firmware Upgrade USB/FOTA USB/FOTA SIM Card 1.8V 1.8V UJART • • USB • • PCM/I2S • • ADC • • SPI • • IzC • • Regulatory CC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RehS/REACH • AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/ AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/			127(DL)/158.5(UL)	127(DL)/158.5(UL)
Protocol LWM2M/COAP/MQTT LWM2M/COAP/MQTT FOTA • Embedded AT • Embedded AT • Firmware Upgrade USB/FOTA USB/FOTA USB/FOTA INETACCO 1.8V INETACCO •	Software Features			
Embedded AT • Firmware Upgrade USB/FOTA USB/FOTA USB/FOTA Interfaces ISW SIM Card 1.8V JART • JSB • PCM/I2S • ADC • SIN Card • ADC • SPI • Cardio • Cardio • SPI • o • Cardio • SPI • Regulatory CC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RehS/REACH • AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/ AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/	Protocol			
Firmware Upgrade USB/FOTA USB/FOTA Interfaces Interfaces SIM Card 1.8V 1.8V UART • • USB • • PCM/I2S • • ADC • • SIPI • • ICC • • PCM/I2S • • ADC • • SIPI • • ICC • • ICC • • Regulatory CC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RoHS/REACH FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RoHS/REACH	FOTA		•	•
Interfaces SIM Card 1.8V 1.8V UART • • USB • • PCM/I2S • • ADC • • SPI • • I2C • • Embedded SIM o o Certification FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ Regulatory FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/ AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/	Embedded AT		•	•
SIM Card 1.8V 1.8V UART • • USB • • PCM/I2S • • ADC • • SPI • • I2C • • Embedded SIM • • Certification • • Regulatory FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RoHS/REACH FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RoHS/REACH	Firmware Upgrade		USB/FOTA	USB/FOTA
UART • • • • • • • • • • • • • • • • • • •	nterfaces			
USB • • PCM/I2S • • ADC • • SPI • • I2C • • Embedded SIM o o Certification • • Regulatory ECC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RoHS/REACH FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RoHS/REACH	SIM Card		1.8V	1.8V
PCM/I2S • ADC • ADC • SPI • I2C • Embedded SIM o Certification • Regulatory FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RoHS/REACH FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RoHS/REACH	UART		•	•
ADC • • • • • • • • • • • • • • • • • • •	USB		•	•
SPI • • 2C • • Embedded SIM o o Certification • • Regulatory FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RoHS/REACH FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RoHS/REACH Carrier AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/ AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/	PCM/I2S		•	•
2C • • Embedded SIM o o Certification • • Regulatory FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RoHS/REACH FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ PTCRB*/RoHS/REACH Carrier AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/ AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/	ADC		•	•
Embedded SIM 0 0 Certification FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ Regulatory FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ FCC/IC/CE/RCM/JATE/TELEC/NCC*/GCF*/ AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/ AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/ AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/	SPI		•	•
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Regulatory PTCRB*/RoHS/REACH PTCRB*/RoHS/REACH Carrier AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/ AT&T*/VERIZON*/TMOBILE-US*/SPRINT*/				
	Regulatory			
	Carrier			
•: support o: optional *: on goin				 support o: optional *: on goin

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