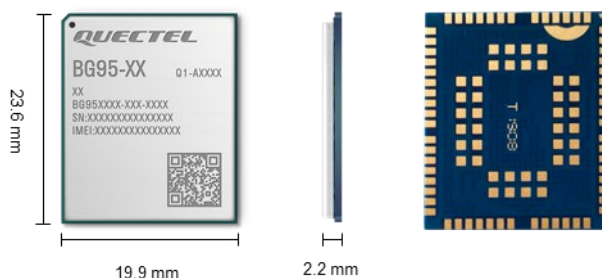


# Quectel BG95 Series

## LTE Cat M1/ Cat NB2/ EGPRS Module



BG95 is a series of multi-mode LPWA modules supporting LTE Cat M1/Cat NB2/EGPRS and integrated GNSS. It is 3GPP Rel-14 compliant and offers maximum data rates of 588 kbps downlink and 1119 kbps uplink under LTE Cat M1. It features ultra-low power consumption by leveraging the integrated RAM/flash as well as the ARM Cortex A7 processor supporting ThreadX, achieving up to 70 % reduction in PSM leakage and 85 % reduction in eDRX current consumption compared to its predecessor.

BG95 boasts a comprehensive set of hardware-based security features and enables trusted applications to run directly on the Cortex A7 TrustZone engine. Additionally, BG95 provides pin-to-pin compatibility with Quectel LTE Cat 4 modules EG91/EG95, LTE Cat M1/Cat NB1/EGPRS module BG96, NB-IoT module BC95-G, UMTS/HSPA modules UG95/UG96 and GSM/GPRS module M95.

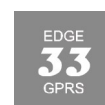
With a cost-effective SMT form factor of 23.6 mm × 19.9 mm × 2.2 mm and high integration level, BG95 enables integrators and developers to easily design their applications and take advantage from the module's low power consumption and mechanical intensity. Its advanced LGA package allows fully automated manufacturing for high-volume applications. A rich set of Internet protocols, industry-standard interfaces and abundant functions extend the applicability of the module to a wide range of M2M applications such as wireless POS, smart metering, wearable devices, etc.

### Key Features

- ✓ LTE Cat M1/Cat NB2/EGPRS module with ultra-low power consumption
- ✓ Easy migration from Quectel GSM/GPRS, UMTS/HSPA and LTE modules
- ✓ Integrated RAM/flash in the baseband chipset
- ✓ Comprehensive set of hardware-based security features
- ✓ Support VoLTE (Cat M1 only), CS voice for GSM, QuecOpen<sup>®</sup>, eSIM, etc.
- ✓ Fast time-to-market: reference designs, evaluation tools and timely technical support minimize design-in time and development efforts
- ✓ Compact SMT form factor ideal for size-constrained applications with tight-space
- ✓ Robust mounting and interfaces
- ✓ Modules and antennas are co-serviced to solve customer problems efficiently



LTE Cat M1 & Cat NB2



EGPRS



LGA Package



Embedded Abundant Protocols



DFOTA



USB 2.0 Interface



Ultra-low Power Consumption



Quectel Enhanced AT Commands



Integrated RAM/Flash in Chipset

Version: 2.2 | Status: Released

# Quectel BG95 Series

LPWA Module	BG95-M1	BG95-M2	BG95-M3	BG95-M4	BG95-M5	BG95-M6	BG95-MF	BG95-M8	BG95-M9
<b>Region/Operator</b>	Global	Global	Global	Global	Global	Global	Global	Global	Global
<b>Dimensions (mm)</b>	23.6 × 19.9 × 2.2	23.6 × 19.9 × 2.2	23.6 × 19.9 × 2.2	23.6 × 19.9 × 2.2	23.6 × 19.9 × 2.2	23.6 × 19.9 × 2.2	23.6 × 19.9 × 2.2	23.6 × 19.9 × 2.2	23.6 × 19.9 × 2.2
<b>Temperature Range</b>									
<b>Operating Temperature</b>	-35 °C to +75 °C	-35 °C to +75 °C	-35 °C to +75 °C	-35 °C to +75 °C	-35 °C to +75 °C	-35 °C to +75 °C	-35 °C to +75 °C	35 °C ~ +75 °C	-35 °C ~ +75 °C
<b>Extended Temperature</b>	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C ~ +85 °C	-40 °C ~ +85 °C
<b>Frequency Bands</b>									
<b>LTE-FDD</b>	<b>Cat M1 Only:</b> B1/ 2/ 3/ 4/ 5/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 27/ 28/ 66/ 85	<b>Cat M1:</b> B1/ 2/ 3/ 4/ 5/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 27/ 28/ 66/ 85	<b>Cat M1:</b> B1/ 2/ 3/ 4/ 5/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 27/ 28/ 66/ 85	<b>Cat M1:</b> B1/ 2/ 3/ 4/ 5/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 27/ 28/ 31 <sup>①</sup> / 66/ 72 <sup>②</sup> / 73 <sup>③</sup> / 85	<b>Cat M1:</b> B1/ 2/ 3/ 4/ 5/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 27/ 28/ 66/ 85	<b>Cat M1:</b> B1/ 2/ 3/ 4/ 5/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 27/ 28/ 66/ 85	<b>Cat M1:</b> B1/ 2/ 3/ 4/ 5/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 27/ 28/ 66/ 85	<b>Cat M1:</b> B1/ 2/ 3/ 4/ 5/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 27/ 28/ 31 <sup>①</sup> / 66/ 72 <sup>②</sup> / 73 <sup>③</sup> / 85	<b>Cat M1:</b> B1/ 2/ 3/ 4/ 5/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 27/ 28/ 31 <sup>①</sup> / 66/ 72 <sup>②</sup> / 73 <sup>③</sup> / 85/ 87/ 88
<b>EGPRS (MHz)</b>	-	-	GSM 850/ EGSM 900/ DCS 1800/ PCS 1900	-	GSM 850/ EGSM 900/ DCS 1800/ PCS 1900	-	-	GSM 850/ EGSM 900/ DCS 1800/ PCS 1900	-
<b>GNSS</b>	GPS/GLONASS/BDS/ Galileo/QZSS	GPS/GLONASS/BDS/ Galileo/QZSS	GPS/GLONASS/BDS/ Galileo/QZSS	GPS/GLONASS/BDS/ Galileo/QZSS	GPS/GLONASS/BDS/ Galileo/QZSS	GPS/GLONASS/BDS/ Galileo/QZSS	GPS/GLONASS/BDS/ Galileo/QZSS	GPS/GLONASS/BDS/ Galileo/QZSS	GPS/GLONASS/BDS/ Galileo/QZSS
<b>Wi-Fi (For Positioning)</b>	-	-	-	-	-	-	2.4 GHz	-	-
<b>Quectel Antenna Recommendation<sup>⑤</sup></b>									
LTE: FPC_YF0006PA/ SMD_YPCP001AA/ External_YECN009AA									
GNSS: FPC_YFGA003AA/ Patch_YFGC025WWC/ External_YEGB000Q1C									
<b>Data Transmission</b>									
<b>LTE-M Data Rate (kbps)</b>	<b>Cat M1:</b> Max. 588 (DL) Max. 1119 (UL)	<b>Cat M1:</b> Max. 588 (DL) Max. 1119 (UL)	<b>Cat M1:</b> Max. 588 (DL) Max. 1119 (UL)	<b>Cat M1:</b> Max. 588 (DL) Max. 1119 (UL)	<b>Cat M1:</b> Max. 588 (DL) Max. 1119 (UL)	<b>Cat M1:</b> Max. 588 (DL) Max. 1119 (UL)	<b>Cat M1:</b> Max. 588 (DL) Max. 1119 (UL)	<b>Cat M1:</b> Max. 588 (DL) Max. 1119 (UL)	<b>Cat M1:</b> Max. 588 (DL) Max. 1119 (UL)
<b>NB-IoT Data Rate (kbps)</b>	-	<b>Cat NB2:</b> Max. 127 (DL) Max. 158.5 (UL) <b>Cat NB1:</b> Max. 32 (DL) Max. 70 (UL)	<b>Cat NB2:</b> Max. 127 (DL) Max. 158.5 (UL) <b>Cat NB1:</b> Max. 32 (DL) Max. 70 (UL)	<b>Cat NB2:</b> Max. 127 (DL) Max. 158.5 (UL) <b>Cat NB1:</b> Max. 32 (DL) Max. 70 (UL)	<b>Cat NB2:</b> Max. 127 (DL) Max. 158.5 (UL) <b>Cat NB1:</b> Max. 32 (DL) Max. 70 (UL)	<b>Cat NB2:</b> Max. 127 (DL) Max. 158.5 (UL) <b>Cat NB1:</b> Max. 32 (DL) Max. 70 (UL)	<b>Cat NB2:</b> Max. 127 (DL) Max. 158.5 (UL) <b>Cat NB1:</b> Max. 32 (DL) Max. 70 (UL)	<b>Cat NB2:</b> Max. 127 (DL) Max. 158.5 (UL) <b>Cat NB1:</b> Max. 32 (DL) Max. 70 (UL)	<b>Cat NB2:</b> Max. 127 (DL) Max. 158.5 (UL) <b>Cat NB1:</b> Max. 32 (DL) Max. 70 (UL)
<b>EDGE Data Rate (kbps)</b>	-	-	Max. 296 (DL) Max. 236.8 (UL)	-	Max. 296 (DL) Max. 236.8 (UL)	-	-	Max. 296 (DL) Max. 236.8 (UL)	-
<b>GPRS Data Rate (kbps)</b>	-	-	Max. 107 (DL) Max. 85.6 (UL)	-	Max. 107 (DL) Max. 85.6 (UL)	-	-	Max. 107 (DL) Max. 85.6 (UL)	-
<b>Interfaces</b>									
<b>(U)SIM</b>	× 1 (1.8 V only)	× 1 (1.8 V only)	× 1 (1.8 V only)	× 1 (1.8 V only)	× 1 (1.8 V only)	× 1 (1.8 V only)	× 1 (1.8 V only)	× 1 (1.8 V only)	× 1 (1.8 V only)
<b>UART</b>	× 3	× 3	× 3	× 3	× 3	× 3	× 3	× 3	× 3
<b>USB 2.0</b>	× 1	× 1	× 1	× 1	× 1	× 1	× 1	× 1	× 1
<b>PCM</b>	× 1 (for VoLTE Only)	× 1 (for VoLTE Only)	× 1 (for VoLTE Only)	× 1 (for VoLTE Only)	× 1 (for VoLTE Only)	× 1 (for VoLTE Only)	× 1 (for VoLTE* Only)	× 1 (for VoLTE* Only)	× 1 (for VoLTE* Only)
<b>I2C</b>	× 1 (for VoLTE Only)	× 1 (for VoLTE Only)	× 1 (for VoLTE Only)	× 1 (for VoLTE Only)	× 1 (for VoLTE Only)	× 1 (for VoLTE Only)	× 1 (for VoLTE* Only)	× 1 (for VoLTE* Only)	× 1 (for VoLTE* Only)
<b>Antenna</b>	× 2	× 2	× 2	× 2	× 2	× 2	× 3	× 2	× 2
<b>GPIO</b>	× 9	× 9	× 9	× 9	× 9	× 9	× 7	× 9	× 9
<b>GRFC</b>	× 2	× 2	× 2	-	× 2	× 2	× 2	-	-
<b>Voice</b>									
<b>Voice</b>	VoLTE for Cat M1	VoLTE for Cat M1	VoLTE for Cat M1	VoLTE for Cat M1	VoLTE for Cat M1	VoLTE for Cat M1	VoLTE* for Cat M1	VoLTE* for Cat M1	VoLTE* for Cat M1
<b>SMS</b>									
<b>SMS</b>	Point-to-point MO/MT SMS Cell Broadcast Text and PDU Mode	Point-to-point MO/MT SMS Cell Broadcast Text and PDU Mode	Point-to-point MO/MT SMS Cell Broadcast Text and PDU Mode	Point-to-point MO/MT SMS Cell Broadcast Text and PDU Mode	Point-to-point MO/MT SMS Cell Broadcast Text and PDU Mode	Point-to-point MO/MT SMS Cell Broadcast Text and PDU Mode	Point-to-point MO/MT SMS Cell Broadcast Text and PDU Mode	Point-to-point MO/MT SMS Cell Broadcast Text and PDU Mode	Point-to-point MO/MT SMS Cell Broadcast Text and PDU Mode
<b>Enhanced Features</b>									
<b>DFOTA</b>	●	●	●	●	●	●	●	●	●
<b>QuecOpen<sup>⑥</sup></b>	●	●	●	●	●	●	*	●	*
<b>SoftSIM</b>	*	*	●	*	*	*	*	*	*
<b>nuSIM</b>	*	*	●	*	*	*	*	*	*
<b>IoT Platform Access</b>	AWS/ Azure	AWS/ Azure	AWS/ Azure	AWS/ Azure	AWS/ Azure	AWS/ Azure	AWS/ Azure	AWS/Azure	AWS/Azure

NOTE:  
 1. ①: sLTE-FDD B31/ 72/ 73 for BG95-M4 supports Power Class 2 and Power Class 3.  
 2. ②: LTE-FDD B31/ 72/ 73 for BG95-M8 supports Power Class 2 (26 dBm) while other LTE bands supports Power Class 5 (21 dBm).  
 3. ③: LTE-FDD B31/ 72/ 73 for BG95-M9 supports Power Class 2 (26 dBm) while other LTE bands supports Power Class 3 (23 dBm).  
 4. ④: Quectel also provides customized antenna design services, and can design a variety of structural types of antennas according to the customer's actual use scenarios.  
 5. ●: supported.  
 6. \*: under development/planning.



# Quectel BG95 Series

LPWA Module	BG95-M1	BG95-M2	BG95-M3	BG95-M4	BG95-M5	BG95-M6	BG95-MF	BG95-M8	BG95-M9
<b>Software Features</b>									
<b>Protocols</b>	PPP/TCP/UDP/SSL/TLS/FTP(S)/HTTP(S)/NITZ/PING/MQTT/LwM2M/CoAP/IPv6	PPP/TCP/UDP/SSL/TLS/FTP(S)/HTTP(S)/NITZ/PING/MQTT/LwM2M/CoAP/IPv6	PPP/TCP/UDP/SSL/TLS/FTP(S)/HTTP(S)/NITZ/PING/MQTT/LwM2M/CoAP/IPv6	PPP/TCP/UDP/SSL/TLS/FTP(S)/HTTP(S)/NITZ/PING/MQTT/LwM2M/CoAP/IPv6	PPP/TCP/UDP/SSL/TLS/FTP(S)/HTTP(S)/NITZ/PING/MQTT/LwM2M/CoAP/IPv6	PPP/TCP/UDP/SSL/TLS/FTP(S)/HTTP(S)/NITZ/PING/MQTT/LwM2M/CoAP/IPv6	PPP/TCP/UDP/SSL/TLS/FTP(S)/HTTP(S)/NITZ/PING/MQTT/LwM2M/CoAP/IPv6	PPP/TCP/UDP/SSL/TLS/FTP(S)/HTTP(S)/NITZ/PING/MQTT/LwM2M/CoAP/IPv6	PPP/TCP/UDP/SSL/TLS/FTP(S)/HTTP(S)/NITZ/PING/MQTT/LwM2M/CoAP/IPv6
<b>USB Serial Driver</b>	Windows 7/8/8.1/10/11, Linux 2.6-5.15, Android 4.x-12.x	Windows 7/8/8.1/10/11, Linux 2.6-5.15, Android 4.x-12.x	Windows 7/8/8.1/10/11, Linux 2.6-5.15, Android 4.x-12.x	Windows 7/8/8.1/10/11, Linux 2.6-5.15, Android 4.x-12.x	Windows 7/8/8.1/10/11, Linux 2.6-5.15, Android 4.x-12.x	Windows 7/8/8.1/10/11, Linux 2.6-5.15, Android 4.x-12.x	Windows 7/8/8.1/10/11, Linux 2.6-5.15, Android 4.x-12.x	Windows 7/8/8.1/10/11, Linux 2.6-5.15, Android 4.x-12.x	Windows 7/8/8.1/10/11, Linux 2.6-5.15, Android 4.x-12.x
<b>GNSS/RIL Driver</b>	Android 4.x-12.x	Android 4.x-12.x	Android 4.x-12.x	Android 4.x-12.x	Android 4.x-12.x	Android 4.x-12.x	Android 4.x-12.x	Android 4.x-12.x	Android 4.x-12.x
<b>Certifications</b>									
<b>Carrier</b>	<b>Europe:</b> Deutsche Telekom <b>America:</b> Verizon/AT&T/T-Mobile/Sprint/U.S. Cellular	<b>Europe:</b> Vodafone/Deutsche Telekom <b>America:</b> Verizon/AT&T/T-Mobile/Sprint/U.S. Cellular <b>Canada:</b> Rogers/Telus	<b>Europe:</b> Vodafone/Deutsche Telekom/Telefonica/Orange <b>America:</b> Verizon/AT&T/T-Mobile/Sprint/U.S. Cellular <b>Canada:</b> Rogers/Telus <b>Brazil:</b> Claro	<b>Europe:</b> Deutsche Telekom	<b>Europe:</b> Vodafone/Deutsche Telekom <b>America:</b> Verizon/AT&T/T-Mobile <b>Japan:</b> NTT DOCOMO/KDDI <b>Australia:</b> Telstra <b>Canada:</b> Rogers	<b>Europe:</b> Vodafone/Deutsche Telekom <b>America:</b> Verizon/AT&T/T-Mobile <b>South Korea:</b> KT/SKT/LGU+ <b>Japan:</b> NTT DOCOMO/KDDI <b>Australia:</b> Telstra	<b>Europe:</b> Vodafone/Deutsche Telekom <b>America:</b> Verizon*/AT&T*	TBD	TBD
<b>Regulatory</b>	<b>Global:</b> GCF <b>Europe:</b> CE <b>North America:</b> PTCRB <b>America:</b> FCC <b>The UK:</b> UKCA <b>Canada:</b> IC <b>Japan:</b> JATE/TELEC <b>Australia/New Zealand:</b> RCM	<b>Global:</b> GCF <b>Europe:</b> CE <b>North America:</b> PTCRB <b>America:</b> FCC <b>The UK:</b> UKCA <b>Canada:</b> IC <b>Brazil:</b> Anatel <b>Mexico:</b> IFETEL <b>Japan:</b> JATE/TELEC <b>Australia/New Zealand:</b> RCM <b>Singapore:</b> IMDA	<b>Global:</b> GCF <b>Europe:</b> CE <b>North America:</b> PTCRB <b>America:</b> FCC <b>The UK:</b> UKCA <b>Canada:</b> IC <b>Brazil:</b> Anatel <b>Mexico:</b> IFETEL <b>Japan:</b> JATE/TELEC <b>Australia/New Zealand:</b> RCM <b>China:</b> CCC <b>Taiwan, China:</b> NCC	<b>Global:</b> GCF <b>Europe:</b> CE <b>Brazil:</b> Anatel <b>Australia/New Zealand:</b> RCM	<b>Global:</b> GCF <b>Europe:</b> CE <b>North America:</b> PTCRB <b>America:</b> FCC <b>The UK:</b> UKCA <b>Canada:</b> IC <b>Brazil:</b> Anatel <b>South Korea:</b> KC <b>Japan:</b> JATE/TELEC <b>Australia/New Zealand:</b> RCM	<b>Global:</b> GCF <b>Europe:</b> CE <b>North America:</b> PTCRB <b>America:</b> FCC <b>The UK:</b> UKCA <b>Canada:</b> IC <b>Brazil:</b> Anatel <b>South Korea:</b> KC <b>Japan:</b> JATE/TELEC <b>Australia/New Zealand:</b> RCM	<b>Global:</b> GCF <b>Europe:</b> CE <b>North America:</b> PTCRB <b>America:</b> FCC <b>Canada:</b> IC <b>Australia/New Zealand:</b> RCM	<b>Europe:</b> CE	<b>Global:</b> GCF <b>Europe:</b> CE <b>Australia/New Zealand:</b> RCM
<b>Others</b>	RoHS	RoHS/ATEX	RoHS/PEN	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS
<b>Electrical Features</b>									
<b>Supply Voltage <sup>①</sup> (V)</b>	2.6-4.8, typ. 3.3	2.6-4.8, typ. 3.3	3.3-4.3, typ. 3.8	3.2-4.2, typ. 3.8	3.3-4.3, typ. 3.8	3.3-4.3, typ. 3.8	3.3-4.3, typ. 3.8	3.3-4.3, typ. 3.8	3.2-4.2, typ. 3.8
<b>Max Output Power (dBm)</b>	Power Class 5 21 @ LTE Bands	Power Class 5 21 @ LTE Bands	Power Class 5 21 @ LTE Bands	Power Class 2 26 @ B31/ 72/ 73 Power Class 3 23 @ B31/ 72/ 73 Power Class 5 21 @ other LTE Bands	Power Class 3 23 @ LTE Bands	Power Class 3 23 @ LTE Bands	Power Class 5 21 @ LTE Bands	Power Class 2 26 @ B31/ 72/ 73 Power Class 5 21 @ other LTE Bands	Power Class 2 26 @ B31/ 72/ 73 Power Class 3 23 @ other LTE Bands
<b>Power Consumption @ PSM (μA)</b>	4	3.9	3.9	4	6	5	4	3.9	4.4
<b>Power Consumption @ LTE Cat M1 (mA)</b>	<b>Sleep Mode:</b> 1.7 @ DRX = 1.28 s 0.577 @ e-I-DRX = 81.92 s <b>Idle Mode:</b> 20 @ DRX = 1.28 s 19.57 @ e-I-DRX = 81.92 s <b>Active Mode:</b> 210 @ 21 dBm, GNSS off	<b>Sleep Mode:</b> 1.68 @ DRX = 1.28 s 0.549 @ e-I-DRX = 81.92 s <b>Idle Mode:</b> 21.2 @ DRX = 1.28 s 20.6 @ e-I-DRX = 81.92 s <b>Active Mode:</b> 212 @ 21 dBm, GNSS off	<b>Sleep Mode:</b> 1.89 @ DRX = 1.28 s 0.63 @ e-I-DRX = 81.92 s <b>Idle Mode:</b> 18.9 @ DRX = 1.28 s 18.2 @ e-I-DRX = 81.92 s <b>Active Mode:</b> 193 @ 21 dBm, GNSS off	<b>Sleep Mode:</b> 1.53 @ DRX = 1.28 s 0.554 @ e-I-DRX = 81.92 s <b>Idle Mode:</b> 18.2 @ DRX = 1.28 s 17.7 @ e-I-DRX = 81.92 s <b>Active Mode:</b> 185 @ 21 dBm, GNSS off 190 @ 23 dBm, GNSS off 226 @ 26 dBm, GNSS off	<b>Sleep Mode:</b> 1.56 @ DRX = 1.28 s 0.72 @ e-I-DRX = 81.92 s <b>Idle Mode:</b> 17.3 @ DRX = 1.28 s 16.6 @ e-I-DRX = 81.92 s <b>Active Mode:</b> 226 @ 23 dBm, GNSS off	<b>Sleep Mode:</b> 1.42 @ DRX = 1.28 s 0.58 @ e-I-DRX = 81.92 s <b>Idle Mode:</b> 18.5 @ DRX = 1.28 s 18.2 @ e-I-DRX = 81.92 s <b>Active Mode:</b> 204 @ 23 dBm, GNSS off	<b>Sleep Mode:</b> 1.59 @ DRX = 1.28 s 0.58 @ e-I-DRX = 81.92 s <b>Idle Mode:</b> 18.5 @ DRX = 1.28 s 17.97 @ e-I-DRX = 81.92 s <b>Active Mode:</b> 181 @ 21 dBm, GNSS off	<b>Sleep Mode:</b> 1.56 @ DRX = 1.28 s 0.73 @ e-I-DRX = 81.92 s <b>Idle Mode:</b> 14.6 @ DRX = 1.28 s 14.1 @ e-I-DRX = 81.92 s <b>Active Mode:</b> 183 @ 21 dBm, GNSS off 257 @ 26 dBm, GNSS off	<b>Sleep Mode:</b> 1.37 @ DRX = 1.28 s 0.62 @ e-I-DRX = 81.92 s <b>Idle Mode:</b> 14.49 @ DRX = 1.28 s 13.92 @ e-I-DRX = 81.92 s <b>Active Mode:</b> 207 @ 23 dBm, GNSS off 282 @ 26 dBm, GNSS off
<b>Power Consumption @ LTE Cat NB1 (mA)</b>	-	<b>Sleep Mode:</b> 1.55 @ DRX = 1.28 s 0.592 @ e-I-DRX = 81.92 s <b>Idle Mode:</b> 16.8 @ DRX = 1.28 s 16.4 @ e-I-DRX = 81.92 s <b>Active Mode:</b> 162 @ 21 dBm, GNSS off	<b>Sleep Mode:</b> 1.49 @ DRX = 1.28 s 0.67 @ e-I-DRX = 81.92 s <b>Idle Mode:</b> 14.8 @ DRX = 1.28 s 14.3 @ e-I-DRX = 81.92 s <b>Active Mode:</b> 154 @ 21 dBm, GNSS off	<b>Sleep Mode:</b> 1.4 @ DRX = 1.28 s 0.588 @ e-I-DRX = 81.92 s <b>Idle Mode:</b> 14.5 @ DRX = 1.28 s 14.1 @ e-I-DRX = 81.92 s <b>Active Mode:</b> 146 @ 21 dBm, GNSS off 147 @ 23 dBm, GNSS off 195 @ 26 dBm, GNSS off	<b>Sleep Mode:</b> 1.43 @ DRX = 1.28 s 0.68 @ e-I-DRX = 81.92 s <b>Idle Mode:</b> 13.5 @ DRX = 1.28 s 13.1 @ e-I-DRX = 81.92 s <b>Active Mode:</b> 190 @ 23 dBm, GNSS off	<b>Sleep Mode:</b> 1.31 @ DRX = 1.28 s 0.55 @ e-I-DRX = 81.92 s <b>Idle Mode:</b> 14.2 @ DRX = 1.28 s 14 @ e-I-DRX = 81.92 s <b>Active Mode:</b> 173 @ 23 dBm, GNSS off	<b>Sleep Mode:</b> 1.43 @ DRX = 1.28 s 0.56 @ e-I-DRX = 81.92 s <b>Idle Mode:</b> 14.2 @ DRX = 1.28 s 14.1 @ e-I-DRX = 81.92 s <b>Active Mode:</b> 137 @ 21 dBm, GNSS off	<b>Sleep Mode:</b> 1.51 @ DRX = 1.28 s 0.78 @ e-I-DRX = 81.92 s <b>Idle Mode:</b> 14.5 @ DRX = 1.28 s 14.1 @ e-I-DRX = 81.92 s <b>Active Mode:</b> 153 @ 21 dBm, GNSS off 235 @ 26 dBm, GNSS off	<b>Sleep Mode:</b> 1.36 @ DRX = 1.28 s 0.72 @ e-I-DRX = 81.92 s <b>Idle Mode:</b> 14.78 @ DRX = 1.28 s 13.93 @ e-I-DRX = 81.92 s <b>Active Mode:</b> 180 @ 23 dBm, GNSS off 263 @ 26 dBm, GNSS off

NOTE:

- <sup>①</sup>: please refer to the hardware design manual to see more specific requirements for the power supply voltage.
- \*: under development/planning.
- : supported.
- TBD: to be determined.