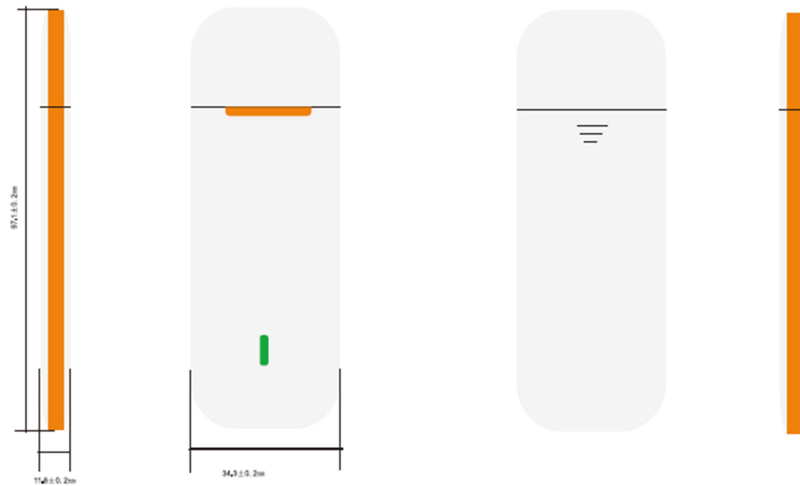


4G USB MODEM

1. Model No. TS- UM6012



2. Brief

TS-UM6012 is Designed and Developed by TENSUN inside out. PCBA layout, firmware development, and ID design are all original. Both field test and www.speedtest.net test show us the magnificent performance. **WI-FI network support up to 10 users online simultaneously.**

***LTE-Advanced**

***Enhanced MIMO**

3. Specification

◇ Basic	Item
* Model	4G LTE-A USB MODEM
*Platform	Sanechip7520
* MP Time	2018/5
* Mode/Band	FDD-LTE:B1(B4)/B2/B3/B5/B7/B8/B28A(B12.B17)/B28B(B13.B14.B20)(optional) TDD-LTE: B38/40/41(optional) WCDMA:B1/B2/B5/B8(optional) GSM Quad Band
* Type	USB MODEM
* Battery	N/A
*System memory	128Mb
* Size(mm)	98mm*35mm*9mm
* Weight	about 27g
◇ HW Description	
* Air interfaces	✓ GSM/GPRS/EDGE:DTM (simple class A), multislot class 12 ✓ TD-SCDMA: - R5 1.28 TDD-HSDPA 2.8 Mbps DL - R7 1.28 TDD-HSUPA 2.2 Mbps UL - R8 1.28 TDD-HSPA+ 4.2 Mbps DL / 2.2 Mbps UL ✓ UMTS: - R99 384 kbps DL / UL

	R5 HSDPA 7.2 Mbps DL R6 HSUPA 5.76 Mbps UL R7 HSPA+ 21 Mbps DL / 5.76 Mbps UL √ TDD-LTE:R10 Cat4 150 Mbps DL / 50Mbps UL √ FDD-LTE:R10 Cat4 150 Mbps DL / 50Mbps UL
* External memory	✓ up to 32GB(Micro-SD)
◇ SW Description	

◇ Interface	
* Antenna	✓ 4G/3G/2G Main antenna ✓ 4G MIMO/3G Rx Diversity antenna ✓ Internal
* USB	✓ Micro USB,USB 2.0 High Speed
* SIM/USIM Card slot	✓ Yes;Standard 6 PIN SIM card interface, compliant with 3GPP 31.101 and 31.102
* Micro-SD Card slot	✓ Yes
* Button	✓ Power:YES ✓ WPS:NO ✓ Reset:YES
◇ Other Description	
◇ Electrical performance spec	
* RF Power Spec	Class 3 for UMTS/HSPA/LTE; Class 4 for GSM 850/900; Class 1 for GSM 1800/1900; Class E2 for EDGE 850/900/1800/1900

* Power supply input	Yes 3.4-4.2 V
* Charge input	5V-1A
◇ Environmental reliability test condition	
* Normal Operation	0°C to +45°C
* Restricted Operation	-10°C to +55°C
* Storage	-20°C to +70°C
◇ Compliance	
* ROHS	Customization
* JATE	Customization
* TELEC	Customization
* PSE	Customization
* others	Customization