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elektronikai alkatrész áruház

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# LTE Module

Technology	LTE CAT4	
Product	A7608SA-H	A7602E-H
Picture		
Form Factor	LCC+LGA, 163PIN	LCC+LGA, 163PIN
Dimensions(mm)	30.0*30.0*2.5	30.0*30.0*2.5
Weight(g)	4.6±0.1	4.6±0.1
	-A(North America(AT&T))	
	-V(North America (Verizon))	
	-E(Europe/Middle East/Africa)	LTE-FDD: B1/B3/B5/B7/B8/B20/B28 LTE-TDD: B38/B40/B41 UMTS/HSPA+ B1/B8 GSM/GPRS/EDGE:900/1800 MHz
Frequency Bands	-SA(New Zealand /Australia/South America) -JC/JE(Japan) -G(Global) -NA(North America)	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28/B66 LTE-TDD: B38/B40/B41 WCDMA: B1/B2/B5/B8 GSM: 850/900/1800/1900MHz
GNSS	○	○
Temperature	-40°C ~ +85°C	-40°C ~ +85°C
<b>Electrical Features</b>		
Supply Voltage Range	3.4V~ 4.2V	3.4V~ 4.2V
Power Consumption(mA)	2.8@GSM,BS_PA_MFRMS=2 3.3@WCDMA, DRX=9 2.5@LTE	2.8@GSM,BS_PA_MFRMS=2 3.3@WCDMA, DRX=9 2.5@LTE
<b>Data Transfer</b>		
LTE(Mbps)	150(DL)/50(UL)	150(DL)/50(UL)
WCDMA/HSPA+(Mbps)	21(DL)/5.76(UL)	21(DL)/5.76(UL)
GPRS/EDGE(Kbps)	236.8(DL)/236.8(UL)	236.8(DL)/236.8(UL)
SMS	●	●
<b>Software Features</b>		
Protocol	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/ HTTP/HTTPS/DNS	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/ HTTP/HTTPS/DNS
TLS	●	●
File System	●	●
Audio Record/Play	●	●
TTS	○	○
DTMF	●	●
LBS	●	●
FOTA	●	●
Jamming Detection		
Android RIL	Android6.0/7.0/8.0/9.0/10.0	Android6.0/7.0/8.0/9.0/10.0
USB Driver	Microsoft Windows 7/8/10 Linux/Android	Microsoft Windows 7/8/10 Linux/Android
WWAN	●	●
ECM	●	●
MBIM	●	●
NDIS		
Embedded AT	○	○
Firmware Upgrade	USB/FOTA	USB/FOTA
<b>Interfaces</b>		
SIM Card	1.8V/3.0V	1.8V/3.0V
UART	●	●
USB	●	●
PCM	○	○
Mic/Reciever	●	●
ADC	●	●
GPIO	●	●
SD Card	●	●
SPI	●	●
I2C	●	●
Diversity Receiver	○	○
<b>Certification</b>		
Certification	SA:Anatel*/FCC/RoHS/REACH	E:CE(RED)/RCM/RoHS/REACH/UKCA/Deutsche Telekom

**Typical Applications** Fleet Management, Telematics, Security, Tracking, Agriculture, Smart Meters, Router, Gateway

○: Optional \* : Under Developing/On-going/Planning