

BM818

Multi-mode
LTE Cat.4 Module
M.2



BM818 series module from BroadMobi IoT production. Adopted the 3GPP Rel. 10 LTE technology, 150Mbps DL and 50Mbps UL data rates. And provide abundant network protocols and drivers, As well as high speed access. It can be designed in many kinds of applications. Such as Laptop, Tablet, Electric-book, CPE, etc.



BroadMobi presents a reliable wireless module BM818 which is based on Qualcomm MDM9X07 multi mode LTE platform.



BM818 is a complete multi-band TDD-LTE/FDD-LTE/WCDMA/EVDO/CDMA1x/GSM M.2 module



It has strong extension capability with rich interfaces including UART, USB2.0, I2S,I2C,RESET, GPIO, etc.



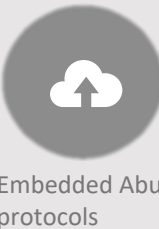
**4G
LTE**




M.2



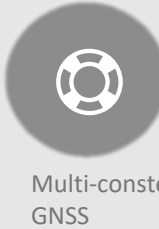
Driver



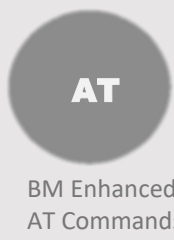
**Embedded Abundant
protocols**



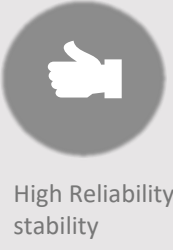
Interfaces



**Multi-constellation
GNSS**



AT
BM Enhanced
AT Commands



**High Reliability
stability**

Cat 4
Max (UL) 50Mbps
Max (DL) 150Mbps
Package

BM818

Multi-mode LTE Cat.4 Module



General Features

- Variant:
 - FDD-LTE B1/B3/B5/B8
 - TDD-LTE B34/B38/B39/B40/B41(120M)
 - HSPA+/WCDMA B1/B5/B8
 - GSM/GPRS/EDGE B3/B8
 - EVDO/CDMA1x:BC0
- 3GPP Rel. 10
- Supply voltage range: 3.3V~ 4.2V
- Operation temperature: -40°C to +85°C
- Dimension: 42.0*30.0*2.3mm
- Weight: 6.5g
- M.2
- Voice
 - Speech codec(HR,FR,EFR,AMR,AMR-WB)
 - Echo Cancellation, Noise Reduction
 - VoLTE, Digital Audio and VoLTE
- SMS
 - Point-to-Point MO and MT
 - SMS cell Broadcast
 - Text and PDU Mode
- Control Via AT Commands

Software Feature

- USB Driver for Windows 7/8/10, Linux
- PC Suite for Windows OS
- NDIS Driver for Linux
- ECM Driver for Linux
- Gobinet Driver for Linux
- RIL supporting for Android
- Protocols
TCP/UDP/PPP/FTP/HTTP/SMTP/SSL/POP3/DN
S/MMS

Enhanced Features

- FOTA;
- DoubleProtect-backup for Software and APP
- Temperature Management;
- GNSS: GPS,GLONASS,BeiDou,Galileo;

Data

- LTE CAT.4
 - Uplink up to 50Mbps,
 - Downlink up to 150Mbps
- HSPA+
 - Uplink up to 5.76 Mbps,
 - Downlink up to 42 Mbps
- UMTS
 - Uplink/Downlink up to 384Kbps
- CDMA 1x EV-DO
 - Max. 14.7Mbps(DL), Max. 5.4Mbps(UL)
- EDGE
 - Max. 236.8Kbps(DL),Max. 236.8Kbps(UL)
- GPRS
 - Max. 85.6Kbps(DL), Max. 85.6Kbps(UL)



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LTE Cat.4 Module



Electrical Characteristics

Output Power:

- Class 3 (23dBm+2/-2dB) for LTE
- Class 3 (24dBm+1/-3dB) for WCDMA
- Class 3 (24dBm+3/-1dB) for CDMA BC0
- Class E2 (27dBm±3dB) for EDGE 900MHz
- Class E2 (26dBm±3dB) for EDGE 1800MHz
- Class 4 (33dBm±2dB) for GSM 900MHz
- Class 1 (30dBm±2dB) for GSM 1800MHz

Consumption:

Power off <20uA
Idle <40mA

Sensitivity:

- FDD B1: -100dBm (10M)
- FDD B3: -100dBm (10M)
- FDD B5: -101dBm (10M)
- FDD B8: -101dBm (10M)
- TDD B34: -99dBm (10M)
- TDD B38: -99dBm (10M)
- TDD B39: -100dBm (10M)
- TDD B40: -99dBm (10M)
- TDD B41: -99dBm (10M)
- WCDMA B1: -110dBm
- WCDMA B5: -110dBm
- WCDMA B8: -110dBm
- CDMA BC0: -109dBm
- GSM 900: -110dBm
- GSM 1800: -109dBm

Electrical Characteristics

GNSS:

- Cold start sensitivity -145dBm
- Tracking sensitivity standalone or MSB -161dBm
- Accuracy in open sky <2 m CEP -50
- Standalone TTFF (super hot/warm/cold) 1sec/29sec/32sec

Interface

- USB2.0
- UART
- SIM card
- PCM/I2S
- GPIO
- W_DISABLE
- WAKE_UP_HOST
- Main, Diversity ,GNSS Antenna Interfaces;

Certifications

- ROHS
- CCC
- CTA
- FCC
- CE

