

L810 LTE Module

Perfect Wireless Experience



Five Modes



11 Frequencies



50Mbps
LTE Uplink



150Mbps
LTE Downlink



GPRS/EDGE
Class 33



Multi OS
Support



Digital
Audio



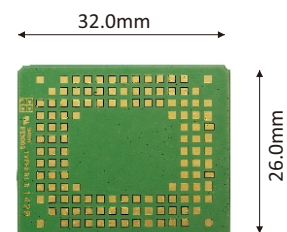
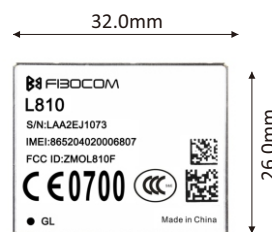
Approved



RoHS

FIBOCOM L810 Module is a LGA-packed LTE wireless communication module supporting 11 frequencies from TDD-LTE/FDD-LTE/WCDMA/TD-SCDMA/GSM. The module supports LTE network based on the FDD/TDD and the 3G fallback.

The L810 Module's network connection speed can reach 150 Mbps for downloading and the 50Mbps for uploading, which makes it suitable to the mobile network provided by the mainstream service provider. The module is applicable to industries like consumer electronics, security monitoring and industrial router.



Features

Support Bands

- LTE FDD: Band 1,3,5,7,8,20
- LTE TDD: Band 38,39,40,41
- WCDMA: Band 1,8
- TD-SCDMA: Band 34,39
- GSM/GPRS/EDGE: Band 3,8

Physical

- Size: 32.0 x 26.0 x 2.0 mm
- Weight: 4.0 gram

Environment

- Operating temperature: -30~ +75°C
- Storage temperature: -40~ +85°C

Data

- UMTS/HSDPA/HSUPA 3GPP release 10
- GSM 3GPP release 7
- LTE FDD: Cat 4 (150 Mbps DL, 50 Mbps UL)
- LTE TDD: Cat 4 (112Mbps DL, 10Mbps UL)
- 3G Fallback
- Digital Audio and VoLTE*

* support in next release

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L810 LTE Module Technical Specifications

Performances

Operating Voltage

- Voltage: 3.3~4.4V

Current Consumption

- 4mA(Sleep Mode)
- 3G Idle:13mA
- LTE TDD Data:600mA
- WCDMA Talk:500mA
- TD-SCDMA Talk:120mA (Power Class1)
- 2G Talk:260mA (GSM PCL5)

RX Sensitivity

- LTE FDD: -94dBm ~ -102dBm
- LTE TDD: -94dBm ~ -102dBm
- TD-SCDMA: -109dBm
- UMTS/HSPA: -109dBm
- GSM: -108dBm

TX Power

- Class 4 (2W):850/900 MHz, GSM
- Class 1 (1W):1800/1900 MHz, GSM
- Class E2 (0.5W): 850/900 MHz, EDGE
- Class E2 (0.4W): 1800/1900 MHz, EDGE
- Class 3 (0.25W): 900/850/1900/2100 MHz, WCDMA, LTE FDD/TDD, TD-SCDMA

Voice Features

- Digital Audio
- Voice Coders EFR/HR/FR/AMR-NB AMR-WB
- Gain Control/Echo Control/Denoise/EQ Control

AT Command Set

- FIBOCOM proprietary AT commands
- GSM 07.05
- GSM 07.07
- 3GPP TS 27.007

Data

LTE

- LTE FDD:Cat 4 (150 Mbps DL, 50 Mbps UL)
- LTE TDD:Cat 4 (112 Mbps DL, 10 MbpsUL)

TD-SCDMA

- Max downlink 2.8 Mbps
- Max uplink 2.2 Mbps

HSPA+

- Max downlink 42 Mbps
- Max uplink 11.5 Mbps

EDGE

- Multi-slot class 33 (5 Down; 4 Up; 6 Total)
- Coding Scheme MCS1-MCS9

GPRS

- Multi-slot class 33 (5 Down; 4 Up; 6 Total)
- Coding Scheme CS1-CS4

SMS

- MO/MT Text and PDU modes
- Cell broadcast

CS2

- UMTS
- GSM

USSD

- support

OS

- Win8.1
- Android 4.2 or above

Character Set

- IRA
- GSM
- UCS2
- HEX

Interfaces

Connectors

- Main/Diversity Antenna

Connectivity

- 1 x USB 2.0
- 1 x UART
- Multiple Profiles over USB
- SIM Support
- I2C Support
- I2S Support
- GPIO
- Clock, RTC
- A/D
- RTC

Accessories

- Firmware Loader Tool over USB/UART
- User Manual
- Evaluation kit

Regulatory and Approvals*

- RoHS
- SRRC
- CCC
- CE
- FCC
- GCF
- PTCRB

* in planning

