L218E
GSM/GPRS+GNSS Module

L218E is a Quad-band (850/900/1800/1900) module with low-power consumption, high performance . It combines GNSS technology with high-sensitivity receiver. Its LCC package make it easy to be soldered and produced quickly through standard SMT equipment, which adapts to the application that strictly requires cost effectiveness and efficiency.

L218E is capable of fast-positioning, build-in TCP/IP protocol, tiny package and wide work temperature. All of these make it suitable to dimension-sensitive devices and application scenarios of location.

Quad-band

GPRS Class 12

Extended Temperature Range-40°C to +85°C

GNSS

LCC

Ecall

AT Command

Analog Audio

BT4.0 BLE

Main Features

- Quad-band: GSM/GPRS 850/900/1800/1900 MHz
- GSM 2/2+ standard
- Class 4 (2W @850/900 MHZ)
- Class 1 (1W @1800/1900 MHZ)
- AT command : GSM 07.07,07.05 and enhanced AT command
- GNSS : GPS/BEIDOU(GLONASS)
- BT: BT3.0/4.0 BLE
- Voltage range : 3.4 ~ 4.2V (3.8V is recommended)
- Operating temperature range : -40 ~ +85℃
- Storage temperature range : -45 ~ +90℃
- Dimension : 14.5*18.5*2.3mm
- Weight : Approx. 1.5g

Specification for Data

- GPRS CLASS 12
- Coding schemes CS 1,2,3,4
- PPP-stack
- Transparent Transmission Mode
- TCP/UDP/HTTP/SMTP*
- USSD

Specification for SMS

- Message
- MO and MT
- Point-to-Point and cell broadcast
- TEXT and PDU mode

Specification for Voice

- Half rate (HR)
- Full rate (FR)
- Enhanced full rate (EFR)
- Adaptive multi-rate (AMR)

Specification for GNSS

- Receiver type
  33 tracking/99 acquisition-channel GPS receiver
- Max update rate : 10Hz
- Sensitivity
  Tracking : -165dBm
  Reacquisition : -160dBm
  Cold starts : -148 dBm
- Time-TO-First-FIX :
  Cold starts : 31s(typical)
  Warm starts : 26s
  Hot Starts : <1s
  EPO Assist : 13s(CTTFF)
- Accuracy
  Automatic Position : 2.5m CEP
  Speed : 0.1m/s

Interfaces

- Analog voice
- UART
- SIM card(3V/1.8V)
- ADC
- GPIO
- USB
- GSM antenna
- GNSS antenna
- BT antenna

Other features

- MQTT
- ECALL
- TTS*

Certification

- CCC/TA/CE

LYNQ