

# F-B200GL

## NB-IoT Module

V1.03



**Four-Faith F-B200GL** is an industrial NB-IoT module which provides long range communication, more compact size that are designed for many M2M/IoT applications. It only 15.2mm x 17mm x 2.6mm size that can easily embed in many devices to help customer optimize product design and cost.

**F-B200GL** is a SMD module which adopts LCC package with 58 pins. It supports many network protocols, such as TCP, UDP, CoAP, MQTT, LWM2M. And integration with standard AT commands to help customer easily secondary development.

It has been widely used on M2M fields, such as wireless meter reading, smart city, smart grid, intelligent transportation, fire protection, asset tracking, mobile terminal POS, logistics, industrial automation, digital medical, military, agriculture, forestry, water, coal, petrochemical and other fields of data transmission.

### HIGHLIGHT

#### DESIGN STANDARDS

- ◆ LCC package with 58 pins can easily embedded in your product
- ◆ Only 15.2x17.0x2.6mm compact size, help customers to optimize product design and cost
- ◆ Support TCP/UDP/CoAP/MQTT/LWM2M network protocol, with built-in extend AT commands can easily help customers to develop, upgrade and design for your product
- ◆ Support half-duplex LTE can provide communication at LTE-FDD NB-IoT network
- ◆ Low power consumption, widely coverage, multi-connections, low cost and optimal software architecture
- ◆ Support customer customization based on project



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## SPECIFICATIONS

NB-IoT	
<b>Band</b>	Cat NB1: LTE-FDD: B1*/B3/B5/B8/B20*/B28*
<b>Network Protocol</b>	TCP/UDP/CoAP/MQTT/LWM2M
<b>Data Rate</b>	The maximum uplink rate is 70kbps The maximum downlink rate is 32kbps
<b>Output power</b>	23dBm
<b>Sensitivity</b>	-115dBm
INTERFACE	
<b>UART</b>	4*UART
<b>USIM</b>	1*USIM
<b>RESET</b>	1*RESET
<b>VDD_EXT</b>	1*VDD_EXT
<b>ADC</b>	1*ADC
<b>GPIOs</b>	3*GPIO
<b>ANTENNA</b>	1*RF antenna interface: match 50 ohm impedance characteristics antenna 1*BT antenna interface: match 50 ohm impedance characteristics antenna
POWER SUPPLY	
<b>Standard</b>	3.8V/0.5A
<b>Range</b>	DC: 3.4~4.2V
POWER CONSUMPTION	
<b>PSM current</b>	4.0uA
PHYSICAL PROPERTIES	
<b>Dimensions</b>	15.2x17.0x2.6mm
<b>Weight</b>	1.4g
<b>LCC</b>	58 pins
OTHERS	
<b>Operating Temperature</b>	-35 °C ~ +75°C
<b>Storage Temperature</b>	-40 °C ~ +85°C
<b>Relative Humidity</b>	≤90% (non-condensing)

**Note:** "\*" means still in development.



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