

## H350 HSPA+ Module

**Perfect Wireless Connection** 



Dual-band GSM/GPRS



Dual-band HSPA/HSPA+



HSPA+



5.76Mbps HSUPA



21Mbps HSDPA



GPRS/EDGE Class 33



Internal
TCP/IP & UDP/IP



Extended Temperature Range



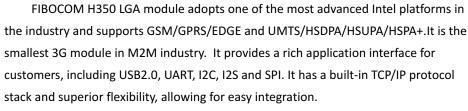
**Ext.RF Sensitivity** 



Approved



RoHS



The H350 LGA module adopts industrial-grade design. The process of its production and manufacturing completely conforms to the standards of ISO/TS 16949 and it can also adapt to severe working environments with high temperatures, high humidity and electromagnetic interference. Not only can it be applied to industrial fields such as vehicle navigation, security monitoring, wireless POS, and remote medical services, but also can be applied to consumer electronics such as tablet PCs, and e-books, fully satisfying the demand of mobile broadband applications for all kinds of users.



#### **Features**

#### ■ Support Bands

#### For H350-A50

- UMTS/HSPA+(WCDMA/FDD) 900/2100MHz
- GSM/GPRS/EDGE 900/1800MHz
   For H350-B50
- UMTS/HSPA+(WCDMA/FDD) 850/1900MHz
- GSM/GPRS/EDGE 850/1900MHz

#### ■ Physical

- LGA size: 29.8 x 17.8 x 2.00 mm
- Weight: 2.5gram

#### Data

- UMTS/HSDPA/HSUPA/HSPA+ 3GPP release 7
- HSPA+ max uplink 5.76 Mbps (Cat 6)
- HSPA+ max downlink 21 Mbps (Cat 14)
- GSM 3GPP release 7
- EDGE (E-GPRS) multi-slot class 33
- GPRS multi-slot class 33

#### **■** Environmental

- Operating temperature: -30 $^{\sim}$  +85 $^{\circ}$ C
- Storage temperature: -40 $^{\sim}$  +85 $^{\circ}$ C



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#### **Performances**

#### **Operating Voltage**

• Voltage: 3.3~4.2V

#### **Current Consumption**

- 2mA(Sleep Mode)
- 3G Idle: 13mA
- 3G Talk: 500mA
- 2G Talk: 260mA(GSM PCL5)

#### **RX Sensitivity**

- UMTS/HSPA: -109dBm
- GSM: -108dBm

#### TX power

- WCDMA 900/2100MHz Class3(0.25W)
- GSM 900MHZ Class4(2W)
- GSM 1800MHZ Class1(1W)
- EDGE 900MHz Class E2(0.5W)
- EDGE 1800MHz Class E2(0.25W)

#### **Voice Features**

- Digital Audio
- Vocoders EFR/HR/FR/AMR
- Gain control

#### **AT Command Set**

- GSM 07.05
- GSM 07.07
- Embedded TCP/IP Stack

#### Data HSPA+

- Max uplink 5.76 Mbps
- Max downlink 21 Mbps
- Max downlink 7.2Mbps(Optional)

#### 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

#### CSD

- UMTS
- GSM

### USSD

### • support

#### OS

- WinXP/Win 7
- Linux
- WinCE
- Android

## Character Set

- IRA
- GSM
- UCS2 • HEX

#### **Interfaces**

#### Connectors

Main Antenna

#### Connectivity

- USB 2.0 Multi-endpoints
- UART 2 serial ports
- MUX Over UART1
- Multiple Profiles over USB
- SPI Support
- I2C Support
- I2S Support
- PCM/HSIC/GPIO
- A/D
- RTC

#### **Accessories**

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

#### **Regulatory and Approvals**

- SRRC/CCC
- CE



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Subject to changes in technology, design and availability

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