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

FIBOCOM H350 LGA module adopts one of the most advanced Intel platforms in the industry and supports GSM/GPRS/EDGE and UMTS/HSDPA/HSUPA/HSPA+.It is the smallest 3G module in M2M industry. It provides a rich application interface for customers, including USB2.0, UART, I2C, I2S and SPI. It has a built-in TCP/IP protocol stack and superior flexibility, allowing for easy integration.

 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
- UMTS/HSPA+(WCDMA/FDD) 900/2100MHz
- GSM 900/1800MHz

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

■ Environmental
- Operating temperature: -30~ +85℃
- Storage temperature: -40~ +85℃

■ 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

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H350 HSPA+ Module Technical Specifications

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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