FIBOCOM | 广和通

Perfect Wireless Connection

H330 HSPA+ Module

Perfect Wireless Connection

Quad-band GSM/GPRS

Quad-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 H330 LGA module adopts one of the most advanced Intel platforms in the industry and supports the common frequencies of global 3G. 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.

H330 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 PC, and e-books, fully satisfying the demand of mobile broadband applications for all kinds of users.
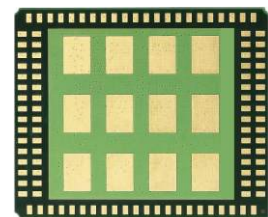
Features

■ Support Band

- UMTS/HSPA+(WCDMA/FDD)
    UMTS/HSUPA(Optional)
   850/900/1800/2100MHz
      900/1800MHz(Optional)
- GSM 850/900/1800/1900MHz
     900/1800MHz(Optional)

■ Physical

- LGA Size: 33.8 x27.8 x 2.45mm
- Weight: 5 gram

■ 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~ +85℃
- Storage temperature: -40~ +85℃

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H330 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
• UMTS/HSPA+ Class3(0.25W)
• GSM 850/900 MHZ Class4(2W)
• GSM 1800/1900 MHZ Class1(1W)
• EDGE 850/900 MHz Class E2(0.5W)
• EDGE 1800/1900 MHz Class E2(0.25W)

Voice Features

• Telephony
• Analog and Digital Audio
• Vocoders EFR/HR/FR/AMR
• Audio control
    Broad gain control
    Echo suppression
    Noise suppression
    Side tone
    Digital Audio I2S

AT Command Set

• GSM 07.05
• GSM 07.07
• GSM 07.10
• 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

OS

• WinXP/Win 7
• Linux
• WinCE
• Android

Character Set

• IRA
• GSM
• UCS2
• HEX

Interfaces

Connectors
• RF Through Pads in LGA
• Main Antenna
• RF for Diversity antenna

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

Accessories

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

Regulatory and Approvals

• SRRC/CCC/NAL
• CE/GCF
• FCC/PTCRB

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