FIBOCOM
Perfect Wireless Connection

H330 HSPA+ Module

Perfect Wireless Connection

	Quad Band GSM/GPRS
	Quad Band UMTS/HSPA+
	HSPA+
	5.76Mbps HSUPA
	21Mbps HSDPA
	EDGE Class 12
	GPRS Class 12
	Internal TCP/IP & UDP/IP
	Extended Temperature Range
	Ext. RF Sensitivity
	CE0168
	RoHS

Fibocom H330 MINI PCIE series uses the industrial-leading Intel platform and support most of the 3G frequency bands all over the world. It has embedded TCP/IP and UDP/IP protocol stacks and provides users with well-defined UART and voice interfaces. The small size features it to be integrated easily and conveniently.

H330 MINI PCIE series is designed in accordance with industrial demands. It's suitable for severe working environment, such as high temperature, high moisture, EMI, etc. It is not only used in the industries of vehicle location and navigation, security, wireless payment and mobile health but also in the consumer electronics like tablet PC and e-book, which fully meets the needs of various type of users on the demands of mobile-broadband.

51.0mm
30.0mm

Product features

■ **Supported Bands：**
- UMTS/HSPA+ (WCDMA/FDD) 850/900/1900/2100 MHz
- GSM 850/900/1800/1900 MHz

■ **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 12
- GPRS multi-slot class 12

■ **Models:**
- MINI PCIE Form Factor

■ **Physical：**
- Size: 51.0mm x 30.0mm x 5.0mm
- Weight: < 25 grams

■ **Environmental：**
- Operating temperature：-30~+85°C
- Storage temperature：-40~+85°C

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H330 HSPA+ Module Technical Specifications

Performance

Operating Voltage
• Voltage: 3.0-3.6V

Current Consumption
• < 5 mA (Sleep Mode)
• 3G Idle: 35 mA
• 3G Talk: 110 mA (0dBm)
• 2G Talk: 260 mA (GSM PCL5)

Typical RX sensitivity
• UMTS/HSPA <-109dBm
• GSM <-109dBm

TX Power
• UMTS/HSPA+ Class3 (24dBm)
• GSM 850/900 MHz Class4 (33dBm)
• GSM 1800/1900 MHz Class1 (30dBm)
• EDGE 850/900 MHz Class E2 (27dBm)
• EDGE 1800/1900 MHz Class E2 (26dBm)

Voice Features
• Telephony
• Analog and Digital Audio
• Vocoders EFR/HR/FR/AMR

Audio control
• Broad gain control
• Echo suppression
• Noise suppression
• Side tone

AT Command Set
• Fibocom proprietary AT commands
• GSM 07.05
• GSM 07.07

Data Features
Embedded TCP/IP and UDP/IP protocol stack

HSPA+
• Max uplink 5.76 Mbps
• Max downlink 21 Mbps

EDGE
• Multi-slot class 12
  (4 Down; 4 Up; 5 Total)
• Coding Scheme MCS1-MCS9

GPRS
• Multi-slot class 12
  (4 Down; 4 Up; 5 Total)
• Coding Scheme CS1-CS4

SMS
• MO / MT Text and PDU modes
• Cell broadcast

CSD
• UMTS
• GSM

OS
• Win XP / Win 7
• Linux
• Win CE
• Android

Accessories
• Firmware Loader Tool over/USB/UART
• User Manual
• Evaluation Kit

Interfaces

Connectors
• MINI PCIE connector
• Main Antenna
• RF for Diversity antenna

Connectivity
• USB 2.0 Multi-endpoints
• UART 1 serial port
• MUX Over UART1
• Multiple Profiles over USB

Character Set
• IRA
• GSM
• UCS2
• HEX

Regulatory and Approvals
• FCC
• RoHS
• CE
• SRRC/CCC

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