

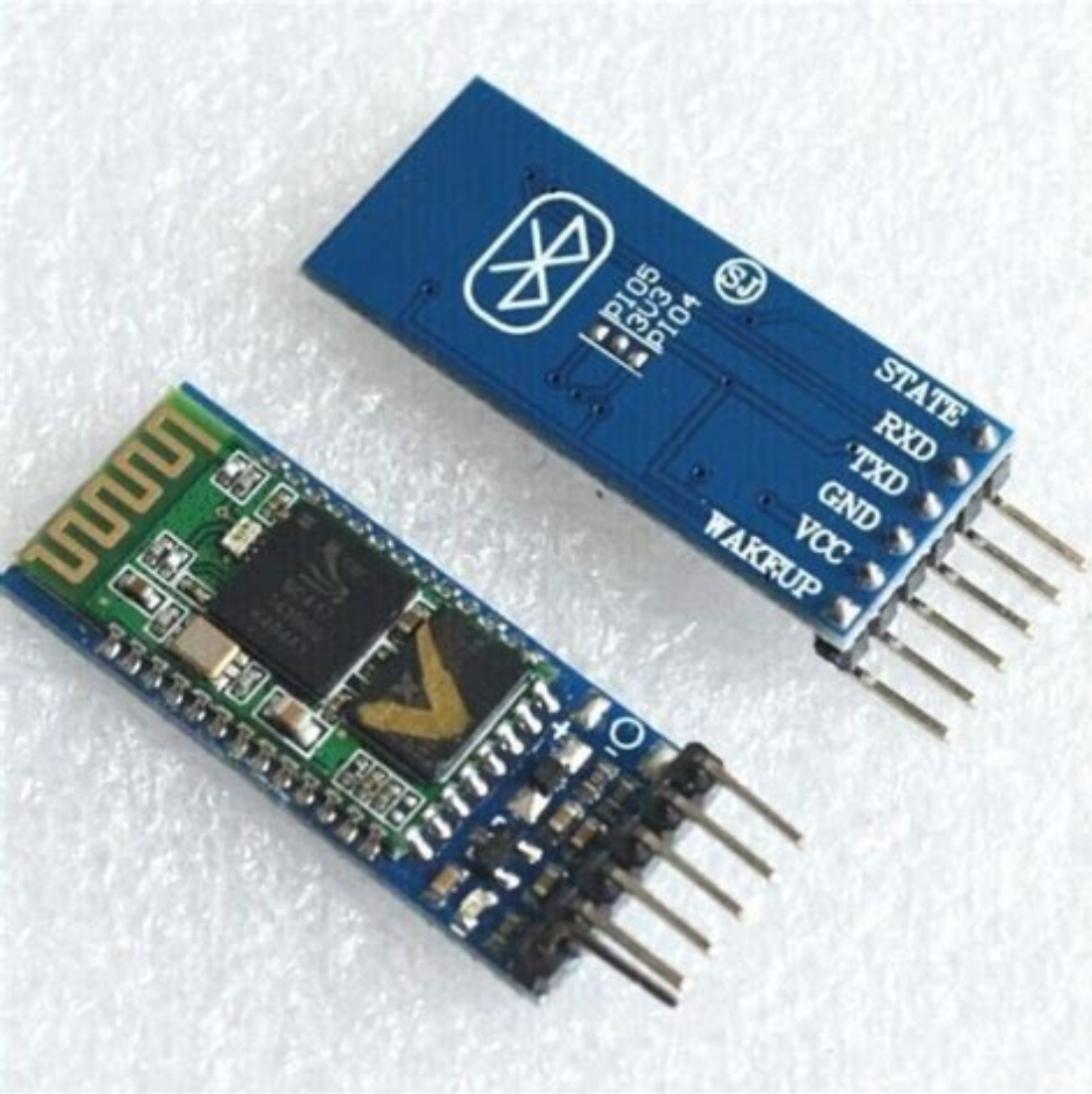
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HC05 bluetooth module datasheet



HC-05

-Bluetooth to Serial Port Module

Overview



HC-05 module is an easy to use Bluetooth SPP (Serial Port Protocol) module, designed for transparent wireless serial connection setup.
Serial port Bluetooth module is fully qualified Bluetooth V2.0+EDR (Enhanced Data Rate) 3Mbps Modulation with complete 2.4GHz radio transceiver and baseband. It uses CSR Bluecore 04-External single chip Bluetooth system with CMOS technology and with AFH(Adaptive Frequency Hopping Feature). It has the footprint as small as 12.7mmx27mm. Hope it will simplify your overall design/development cycle.

Specifications

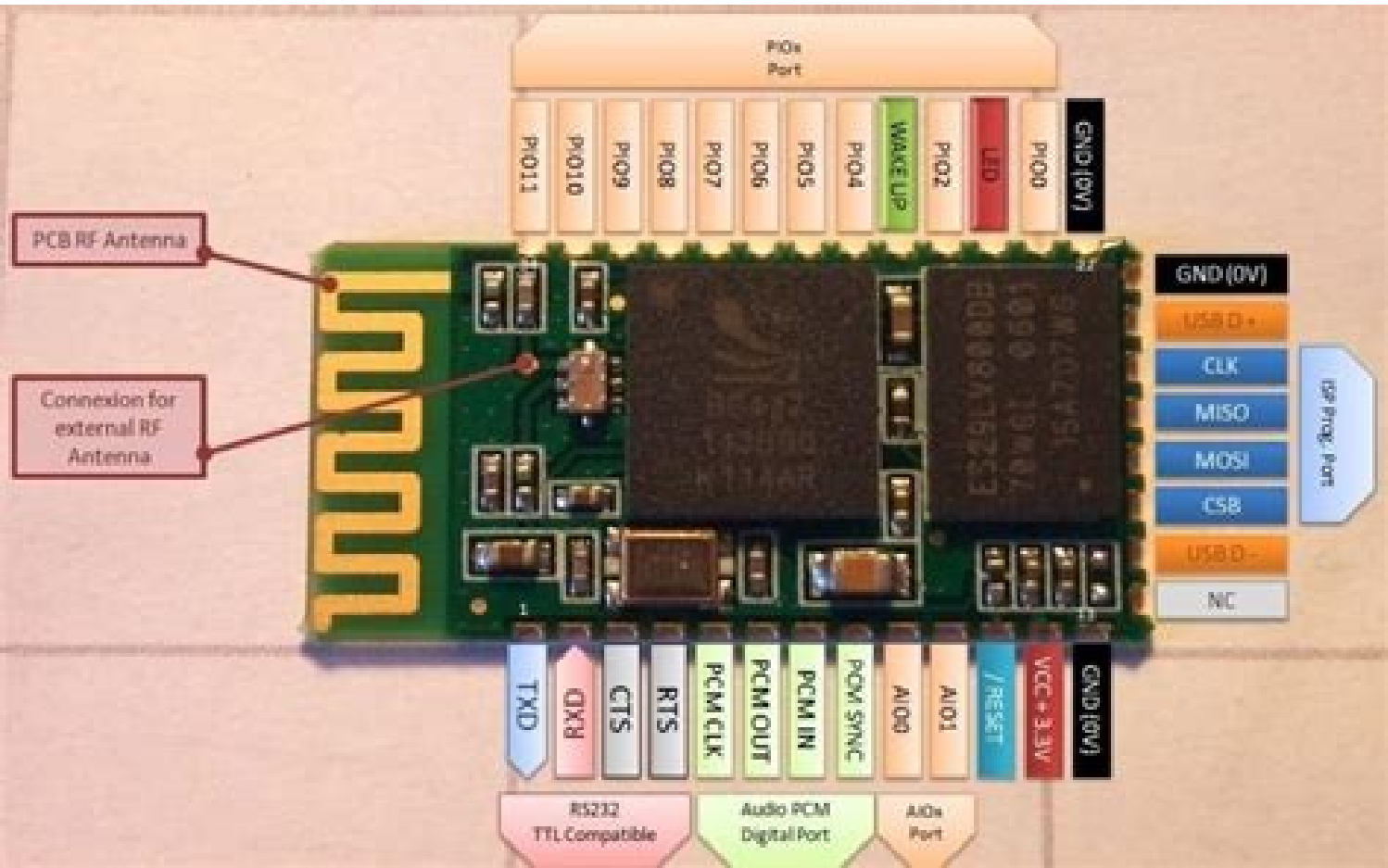
Hardware features

- Typical -80dBm sensitivity
- Up to +4dBm RF transmit power
- Low Power 1.8V Operation, 1.8 to 3.6V I/O
- PWD control
- UART interface with programmable baud rate
- With integrated antenna
- With edge connector

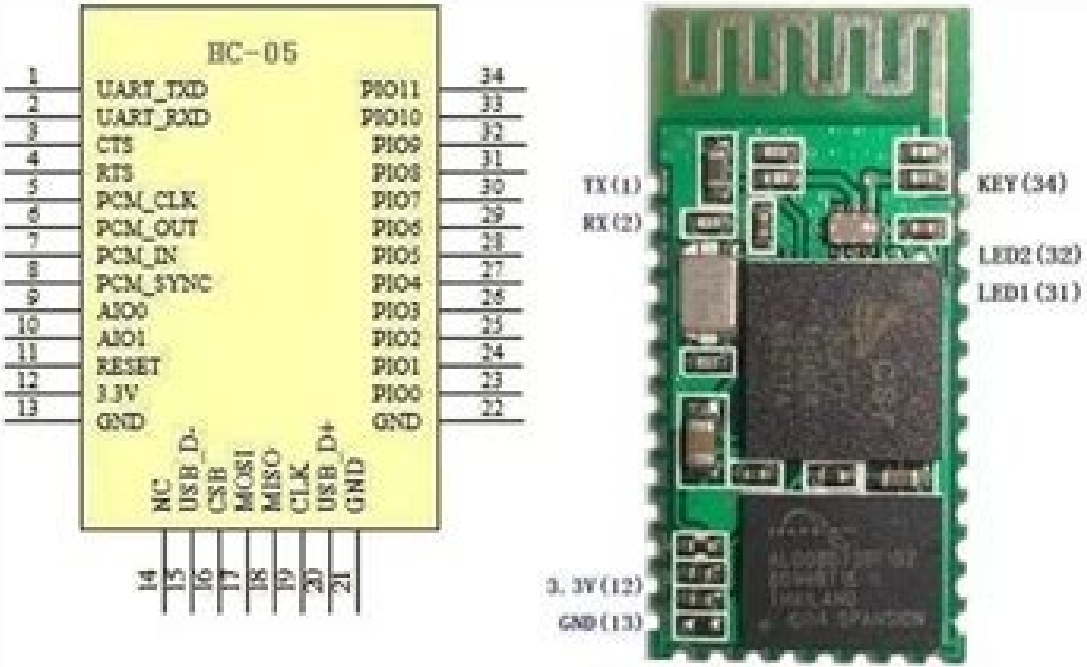
HC-05 Bluetooth module iteadstudio.com 06.18.2010



BTM-5 Bluetooth
Wireless TTL Microbluetooth Transceiver Module
Datasheet
Rev 1.0, Jan 2011



Pin Description



Working of HC-05 Bluetooth Module: The HC-05 Bluetooth Module can be used in two modes of operation: Command Mode and Data Mode. HC-05 Specifications HC-05 Specifications **Image Source: Electrosome Bluetooth protocol: Bluetooth Specification v2.0+EDR (Enhanced Data Rate) Frequency: 2.4GHz ISM band Modulation: GFSK (Gaussian Frequency Shift Keying) Emission power: ≤4dBm, Class 2 Sensitivity: ≤-84dBm at 0.1% BER Speed: Asynchronous communication: 2.1Mbps (Max) / 160 kbps, Synchronous communication: 1Mbps/1Mbps Security: Authentication and encryption Profiles: Bluetooth serial port Supply Voltage: +3.3V to 6.0 V Supply Current: 30mA Working temperature: -20 ~ +75Centigrade Dimension: 26.9mm x 13mm x 2.2 mm HC-05 Bluetooth module follows the IEEE 802.15.1 standardized protocol, through which one can build a wireless Personal Area Network (PAN). It has the footprint as small as 12.7mmx27mm. Input Voltage : DC 5V 2. Specification: 1. VCC Used to power the Bluetooth module. HC-05 Bluetooth module datasheet: HC-05 datasheet (page 1) HC-05 datasheet download (page 2) Download the full datasheet from this link: HC-05 Datasheet Introduction to HC-05 Bluetooth Module The HC-05 is very easy to use Bluetooth to serial converter. 2. Command Mode: In Command Mode, we can communicate with the Bluetooth module through AT Commands to configure various settings and parameters of the Module. Exchange of data between devices. Ground of HC-05 to Ground of Arduino. HC-05 Bluetooth Module HC-05 is a Bluetooth SPP (Serial Port Protocol) module designed for wireless communication. This pin transmits Serial data (wireless signals received by the Bluetooth module are converted by module and transmitted out serially on this pin) 5. 3. To select either of the modes, we need to activate the Command Mode and sent the correct AT Commands. It has the footprint as small as 12.7mmx27mm. Part Number : HC-05, HC05, CZ-HC-05 Function : Bluetooth to Serial Port Module Package : 6Pin Module Type Manufacturers : Ited studio This post explains for the semiconductor HC-05. Its communication is via serial communication which makes an easy way to interface with controller or PC. This includes the firmware information, changing Baud Rate, changing module name, etc. Hope it will simplify your overall design/development cycle. Pin Name Pin Description 1. It uses frequency-hopping spread spectrum (FHSS) radio technology to send data over the air. This allows the devices to communicate wirelessly with each other. STATE It is used to check if the module is connected or not. Image Description : HC-05 module is an easy to use Bluetooth SPP (Serial Port Protocol) module, designed for transparent wireless serial connection setup. Connect the Bluetooth module (HC-05) to the Arduino with the help of jumper wires. 6. KEY/En This pin is used to bring the Bluetooth module in AT commands mode. HC-05 pinout and specifications are given below. TXD Connect this pin with the RXD pin of the Microcontroller. GND The ground pin of the module 4. Baud rate is 9600bps in data mode. The Key/EN pin should be high to operate Bluetooth in command mode. HC-05 Bluetooth module provides switching mode between master and slave mode which means it able to use neither receiving nor transmitting data. We can also use it to set HC-05 as a master or slave. Manufacture ITEAD Datasheet Download HC-05 Datasheet Part HC-05 Description Bluetooth to Serial Port Module Feature 1 Tech Support: info@iteadstudio.com HC- 05 -Bluetooth to Serial Port Module Ove rview HC-05 module is an easy to use Bluetooth SPP (Serial Port Protocol) module, designed for transparent wireless serial connection setup. It uses CSR Bluecore 04-External single chip Bluetooth system with CMOS technology and with AFH(Adaptive Frequency Hopping Feature). Power of HC-05 to 3.3V of Arduino. It uses CSR Bluecore 04-External single chip Bluetooth system with CMOS technology and with AFH(Adaptive Frequency Hopping Feature). Manufacture ITEAD Datasheet Download HC-05 Datasheet Recommended third-party HC-05 Datasheet You're Reading a Free Preview Pages 4 to 6 are not shown in this preview. This is one of theBluetooth Module types. Rx of HC-05 to Tx of Arduino. Serial port Bluetooth module is fully qualified Bluetooth V2.0+EDR (Enhanced Data Rate) 3Mbps Modulation with complete 2.4GHz radio transceiver and baseband. Communication Method : Serial Communication 3. HC-05 connects microcontrollers (like Arduino) to other Bluetooth enabled devices. Master and slave mode can be switched HC-05 Bluetooth module is a Bluetooth to serial converter that connects microcontrollers (like Arduino) to other Bluetooth enabled devices. Give 5V / 3.3 V to this Pin. Input debouncing must be low for >5MS to cause a reset UART. RTS 4 CMOS output, tri-stable with weak internal pull-up UART request to send, active low UART. CTS 3 CMOS input with weak internal pull-down UART clear to send, active low UART. RX 2 CMOS input with weak internal pull-down UART Data input UART. TX 1 CMOS output, tri-stable with weak internal pull-up UART Data output SPI. MOSI 17 CMOS input with weak internal pull-up Chip select for the serial peripheral interface, active low SPI. CLK 19 CMOS input with weak internal pull-down The Serial peripheral interface clock SPI. MISO 18 CMOS input with weak internal pull-down The Serial peripheral interface data output USB. + 15 Bi-directional USB. + 20 Bi-directional NC 14 PCM. CLK 5 Bi-directional The Synchronous PCM data clock PCM. OUT 6 CMOS output The Synchronous PCM data output PCM. IN 7 CMOS input The Synchronous PCM data input PCM. SYNC 8 Bi-directional The Synchronous PCM data strobe HC-05 Arduino Connections: HC-05 connection with Arduino Connect and a LED to an Arduino board with the help of jumper wires. HC-05 Pinout with Description: PIN NO. Data Mode: In this mode, the module is used for communicating with other Bluetooth devices i.e. data transfer happens in this mode. The HC-05 Bluetooth module receives the data from this pin and then transmits it wirelessly. It acts as a status indicator. Serial port Bluetooth module is fully qualified Bluetooth V2.0+EDR (Enhanced Data Rate) 3Mbps Modulation with complete 2.4GHz radio transceiver and baseband. Hope it will simplify your overall design/

HC-05 Bluetooth Module is an easy to use Bluetooth SPP (Serial Port Protocol) module, designed for transparent wireless serial connection setup. By default, this pin operates in data mode. HC-05 Breakout Board Pinout: HC-05 Breakout board pinout

PIN	Name	Pin Type	Description
GND	13,21,22	VSS	Ground
Pot	3.3	VCC	12 3.3V Integrated 3.3V supply with On-chip linear regulator output within 3.15-3.3V
AIO0	9	Bi-directional Programmable input/output line	AIO0 9 Bi-directional Programmable input/output line
AIO1	10	Bi-directional Programmable input/output line	AIO1 10 Bi-directional Programmable input/output line
AIO2	23	Bi-directional RX EN Programmable input/output line	control output for LNA
AIO1	24	Bi-directional TX EN Programmable input/output line	control output for PA
PIO2	25	Bi-directional Programmable input/output line	PIO2 25 Bi-directional Programmable input/output line
PIO3	26	Bi-directional Programmable input/output line	PIO3 26 Bi-directional Programmable input/output line
PIO4	27	Bi-directional Programmable input/output line	PIO4 27 Bi-directional Programmable input/output line
PIO5	28	Bi-directional Programmable input/output line	PIO5 28 Bi-directional Programmable input/output line
PIO6	29	Bi-directional Programmable input/output line	PIO6 29 Bi-directional Programmable input/output line
PIO7	30	Bi-directional Programmable input/output line	PIO7 30 Bi-directional Programmable input/output line
PIN08	31	Bi-directional Programmable input/output line	PIN08 31 Bi-directional Programmable input/output line
PIO9	32	Bi-directional Programmable input/output line	PIO9 32 Bi-directional Programmable input/output line
PIO10	33	Bi-directional Programmable input/output line	PIO10 33 Bi-directional Programmable input/output line
PIO11	34	Bi-directional Programmable input/output line	PIO11 34 Bi-directional Programmable input/output line
RESET	11	CMOS input with weak internal pull-up	Reset of low. Tx of HC-05 to Rx of Arduino.

** Full tutorial here: [Arduino Remote controlled LED using HC-05 Applications of HC-05 Bluetooth module: Computer and peripheral devices GPS receiver Industrial control MCU projects](#)

Except for the first and the last pin, all other pins need to be connected to the Arduino. It can also be operated as a master or slave configuration. RXD Connect this pin to the TXD pin of the Microcontroller. Bluetooth to Serial Port Module Bluetooth to Serial Port Module Part HC-05 Description Bluetooth to Serial Port Module Feature 1 Tech Support: info@iteadstudio.com HC- 05 -Bluetooth to Serial Port Module Ove rview HC-05 module is an easy to use B luetooth SPP (Serial Port Protocol) mod ule, designed for transparent wireless serial connection setup. Baud rate is 38400bps in command mode. In HC-05, the default baud speed in command mode is 38400bps and 9600 in data mode.

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