Bluetooth Modules

BTM 112

- The module is a Max. 4dBm (Class2) module.
- Bluetooth standard Ver. 2.0 + EDR conformity
- Internal 1,8V regulator
- Low current consumption: Hold, Sniff, Park, Deep sleep Mode
- 3.0V to 3.6V operation
- Support for up to seven slaves: SCO links, ACL links, Piconet<7>
- Interface: USB,UART&PCM(for voice CODEC)
- SPP firmware with AT command sets
- Dimensions: 25 x 14.5 x 2.2 mm
- Applications: Notebook PC, PDA, Digital camera & printer, GPS,POS, Barcode Reader,
- Domestic and industrial applications

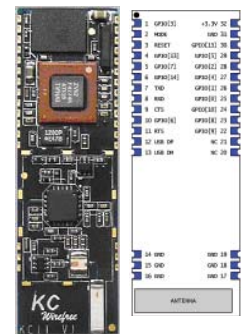| Technical Parameters	BTM 112
Carrier Frequency	2,402-2,480 GHz
Operating Voltage (VDD)	3,3 V
RF Output Power	0dBm
RX Sensitivity	-83dBm
Average Current Consumption	46mA

Part No.	Ord. No.
S BTM-112	74080

KC Series

KC 11 - Class 1 Bluetooth v1.2 Serial/Data Module

One of the most powerful Bluetooth modules available, the KC-11 Bluetooth OEM Hi Power Module is designed for maximum wireless range and penetration.
The KC-11 is a surface mount PCB module that provides fully embedded, ready to use Bluetooth wireless technology. The reprogrammable flash memory contains embedded firmware for serial cable replacement using the Bluetooth SPP profile.
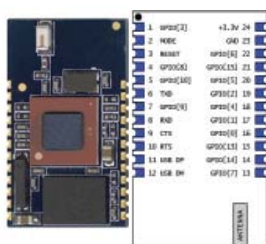

Key Features:
- FCC & Bluetooth licensed radio
- Complete RF ready module
- Fully embedded serial port profile (SPP)
- Class 1 radio
- Bluetooth v1.2
- Wireless data communications
- ARM7 microprocessor up to 48MHz
- 8Mb flash memory
- 921K baud data throughput
- Integrated chip antenna
- 128-bit encryption security
- Amplified transmission and reception
- Range 100m LOS
- SPI interface, up to 24MHz
- 14 general purpose I/O
- Multipoint capability

KC 21 - Class 2 Bluetooth v2.1+EDR Serial/Data Module

KC-21.6 modules are pre-engineered, pre-qualified, and highly tuned surface mount PCB modules that provide fully embedded, ready to use Bluetooth wireless technology. Multi-surface pads provide both bottom pads for high volume reflow soldering and edge pads for low volume hand soldering.
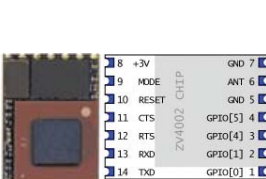

Key Features:
- Bluetooth v2.1 + EDR Compatible
- 2.4GHz Class 2 Radio
- Range Exceeds 20m
- High Speed Data Rate Up To 3Mbps
- 12 Programmable Digital I/O Pins
- 2 Programmable Analog I/O Pins
- UART and USB Interfaces
- Onboard Antenna
- 8Mbit Flash Memory
- CSR BlueCore™ 4 Ext Chipset

KC 22 - Class 2 Bluetooth v1.2 Micro Serial/Data Module

One of the smallest Bluetooth modules available, the KC-22 Bluetooth OEM Micro Module is designed for maximum performance in a minimal space. The KC-22 module includes 4 general purpose input/output lines, and offers high speed serial communications up to 921K baud.

Key Features:
- Fully embedded serial port profile (SPP)
- RF module subsystem w/ external antenna
- 50 ohm antenna port
- Bluetooth v1.2
- Class 2 radio
- Wireless data communications
- ARM7 microprocessor up to 48MHz
- 4Mb flash memory
- 921K baud data throughput
- 128-bit encryption security
- Range up to 20m LOS
- 4 general purpose I/O
- AT command set
- Multipoint capability

KC 4201 - Class 2 Bluetooth v2.1+EDR Serial/Data Module

The KC420x series modules are pre-engineered, pre-qualified, and highly tuned surface mount PCB modules that
provide fully embedded, ready to use Bluetooth wireless technology. Multi-surface pads provide both bottom pads for
high volume reflow soldering and edge pads for low volume hand soldering.
The KC4201 offers the standard but powerful Bluetooth HCI programming interface. The onboard flash memory stores
OEM programmable default settings, and pairing history.

Firmware Features:
- Wireless Data Communications Subsystem
- Embedded Bluetooth Serial Port Profile (SPP)1
- Easy to use AT Command Interface Using UART1
- OEM Programmable Configuration
- Remote Command And Control Available1
- Multipoint / Piconet Capable
- 128Bit Encryption Security

Hardware Features:
- Bluetooth v2.1
- 2.4GHz Class 2 Radio
- Range Exceeds 20m
- High Speed Data Rate Up To 3Mbps
- Programmable I/O Pins – 11 Digital, 2 Analog
- UART, USB, SPI, PCM, I2C interfaces
- Onboard Antenna
- 8Mbit Flash Memory

	Part No.	Note.	Ord.No.
S	KC 11	V1.2 spec, 15x43mm amplified	59716
S	KC 21	V1.2 spec., 15x27mm	55636
O	KC 22	V1.2 spec., 15x27mm	59714
S	KC 4201	Class2, HCI 32x13mm	71301

S - in-stock product   O - on order product