

Device Features

- Bluetooth™ V1.1 Compliant
- 2.7V to 3.3V Operation
- Full Bluetooth data rate over UART and USB
- Support Device Firmware Upgrade
- Four low power modes: Park, Sniff, Hold and Deep Sleep
- Piconet and Scatternet Capability
- Support for up to seven slaves
- Antenna included (Optional)

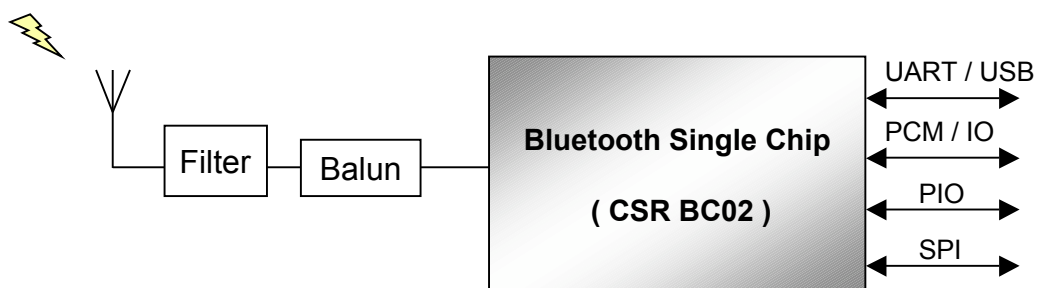
General Description

UB1-1112 is a class 2 surface mountable Bluetooth Module with CSR BC02 chip. It provides a full compliant system for data and voice communications. The physical interfaces to a host(UART and USB) can support full Bluetooth data rate of 723.2k/57.6kbps. A 13 bit PCM, 8k sample/sec, synchronous bi-directional audio interface is also available.

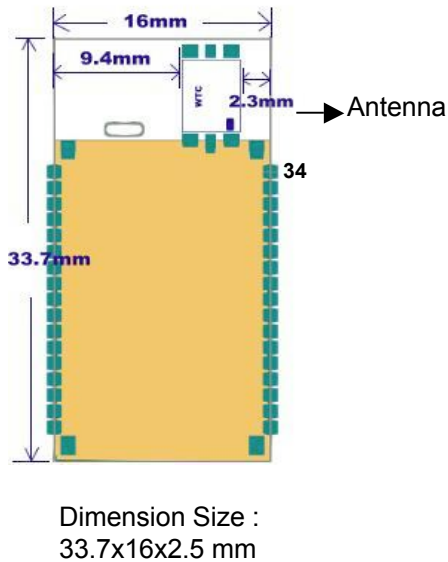
Applications

- Laptop and Desktop PCs
- Mobile Phones
- Cordless Headsets
- Personal Digital Assistants (PDAs)
- Domestic and Industrial Appliances
- FAX
- Printers

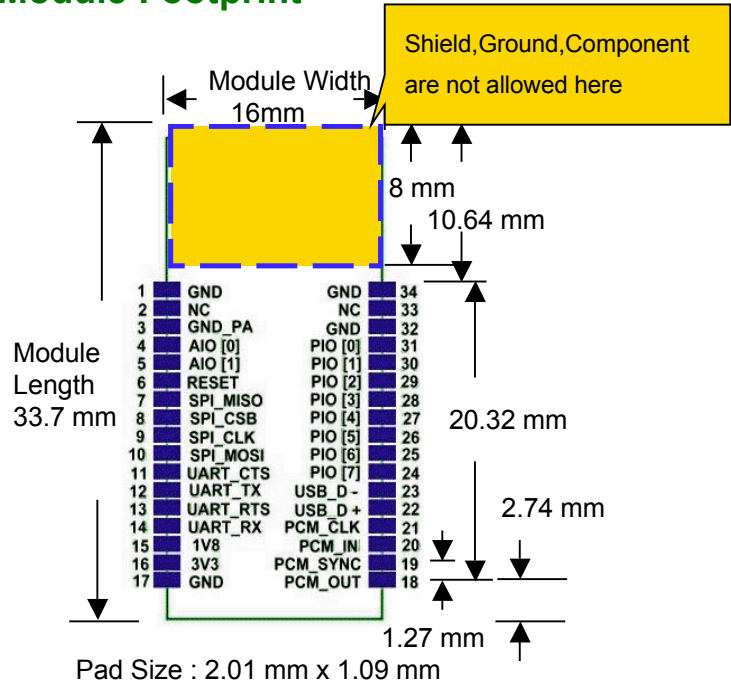
Block Diagram



Physical Dimension



Module Footprint



Power Consumption

Mode	Avg	Peak	Unit
SCO connection HV3 (1s interval sniff mode)	28	-	mA
SCO connection HV1 (1s interval sniff mode)	53	-	mA
ACL data transfer 115.2kbps UART	15	-	mA
ACL data transfer 720kbps USB	61	-	mA
Deep Sleep Mode	15	-	uA

Radio Characteristics

Receiver	Typ	Bluetooth Specification	Unit
Sensitivity @0.1%BER	-84	≤ -70	dBm
Maximum received signal	-5	≥ -20	dBm

Transmitter	Typ	Bluetooth Specification	Unit
Average RF transmit power	+4	-6 ~ +4	dBm

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