

Bluetooth Version 4.0 Audio Module



Product Brief

BC127 Certified Bluetooth Module with Integrated Antenna Connects to Phones and Delivers Handsfree, High quality Stereo Music, Data and Access to Phonebook in the Smallest Package Available.



It consists of a Class2 Bluetooth Radio, a DSP processor and is controlled by high level UART instructions or GPIOs. B127 supports all the high-end wireless Codecs such as aptX®, AAC, MP3 and SBC for high quality Audio. Profiles supported include HFP1.6 (Handsfree), HPF-AG, A2DP Sync and Source / AVRCP 1.4 (Music streaming Transmit and Received), PBAP (Access to Phonebook), MAP (Access to Text Messages), Bluetooth Low Energy GATT and Connection to Smart Phones such as Android (using the SPP profile) or iPhones®, iPads® and iPods® (using iAP1 and iAP2 protocols).

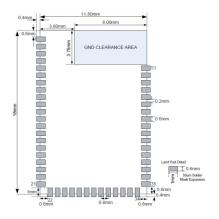
Smart Phone/Laptop/Tablet Host Processor WART BC127 Module AUDIO AUDIO



Product Brief



- Dual Mode: Bluetooth and Bluetooth Low Energy (BLE)
- Backwards compatible with 1.1, 2.0, 2.1 + EDR and 3.0
- Embedded Bluetooth Protocol Stack
- Supports HFP, A2DP Sync, AVRCP, PBAP, MAP and SPP
- Supports HFP-Ag and A2DP Source for Transmit
- Supports IAP1/IAP2 profiles for connection to iOS devices
- Supports aptX, (inc. Low latency), aac, sbs and mp3 codecs
- Simple UART and GPIO interface for command and control
- Connects to external Codecs with I2S, PCM and SPDIF interfaces
- Input and Ouput can be Digital or Analog Audio
- Small form factor (11.8mm x 18mm)



Applications

BC127 is ideal for any development that requires high quality Bluetooth Audio streaming or a dual mode solution to connect both to BLE enabled Smart Phones and Classic Bluetooth Smart Phones. Some of the typical applications are:

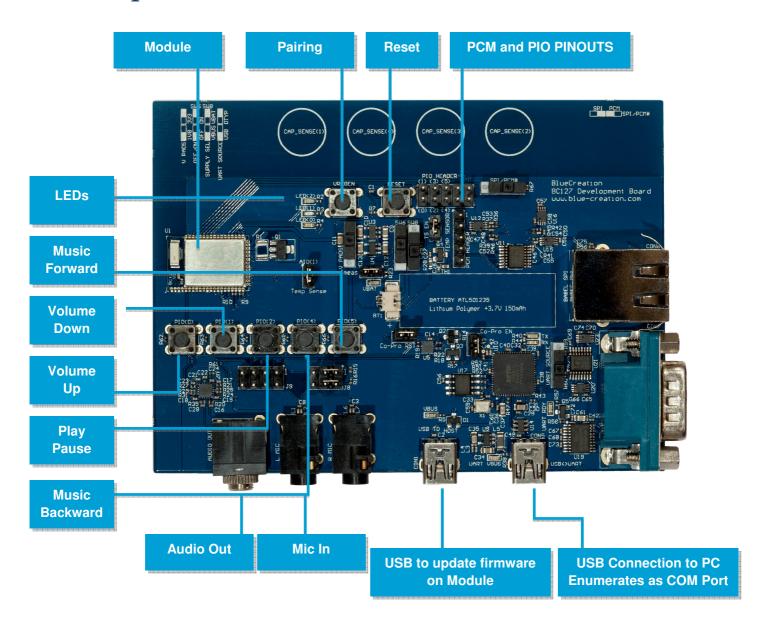
- Smart Phone Controlled Accessories
- Wireless Speakers and Headsets
- Intercom Push to Talk Gateways
- Wireless Docks and Sound Bars
- Dual Mode wireless Gateways
- General Bluetooth Controllers
- Remote Controls and Smart TVs





Product Brief

Development Kit





Product Brief



Ordering Information

Part number BC127

Order number	Description
BC127	Class2 Bluetooth 4.0 Module with integrated Antenna
BC127-DEVKIT-001	Development kit for the BC127 module