

MWIT1

BT Module

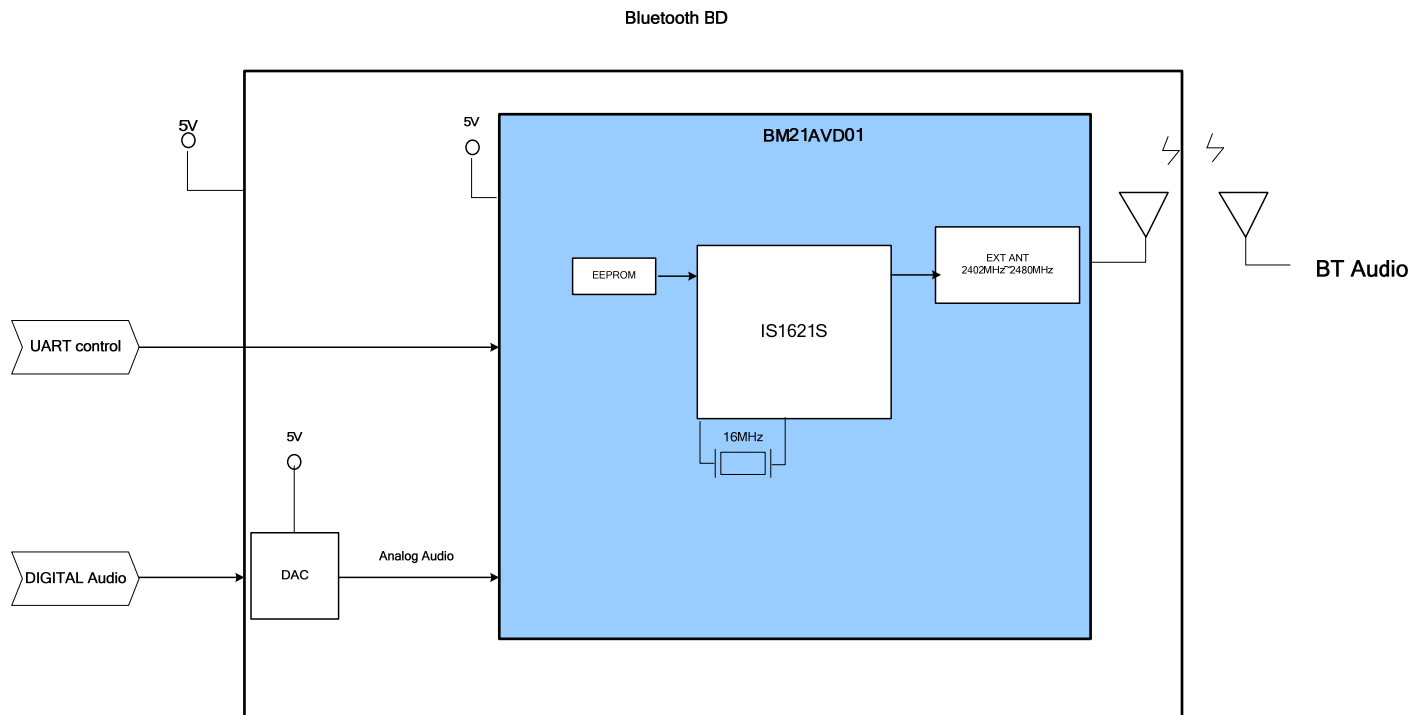
Product Description

MWIT1 is a compact, highly integrated, ultra-low cost, CMOS single-chip RF + baseband module for Bluetooth v3.0+EDR (Enhanced Data Rate) 2.4GHz audio transmitter applications. MWIT1 is fully compliant with Bluetooth specification and completely backward-compatible with BT1.1, 1.2, 2.0 or 2.1 systems.

Features

- Main chip: ISSC IS1621S-393
- Compliant with Bluetooth Specification v.3.0 + EDR in 2.4 GHz ISM band
- Class 2 Bluetooth radio with +4dBm transmit power and -91dBm receiver sensitivity
- Built-in 32 KB RAM for data storage and baseband data transfer buffering
- 16-bit/32-bit run time configurable audio processor
- Ultra low delay(ULD) when bundled with specific ISSC products
- Auto-connection supported
- High performance stereo codec
- 85dB ADC SNR
- Silence suppression
- Equalizer supported
- Support 1 to 2 connection
- UART command supported
- Built-in 3V and 1.8V linear regulator
- RoHS compliant

Device pinout Diagram



Digital Audio Port: Support I2S format digital audio and DAC will transfer digital audio to analog audio

UART Control Port: Support UART command to control Bluetooth board

Power Supply: Support 5V power supply

Function Description

The MWIT1 is Bluetooth audio transmitter can transfer audio to Bluetooth audio sink by Bluetooth method.

The source device can use UART command to control this module to search Bluetooth device and you can choose your Bluetooth device and link it. Then you can hear the sound from your Bluetooth device.

Information to user.

Notice:

Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Radiation Exposure Statement

1. This Transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

OEM Notice

For a host using a certified modular with a standard fixed label, if (1) the module's FCC ID is not visible when installed in the host, or (2) if the host is marketed so that end users do not have straightforward commonly used methods for access to remove the module so that the FCC ID of the module is visible; then an additional permanent label referring to the enclosed module: "Contains Transmitter Module FCC ID: HLZQBT1" or "Contains FCC ID: HLZQBT1" must be used. The host OEM user manual must also contain clear instructions on how end users can find and/or access the module and the FCC ID.

IMPORTANT NOTE:

This module is intended for OEM integrator. The OEM integrator is still responsible for the FCC compliance requirement of the end product which integrates this module.

Declaration the Restriction of this Limited Module Approval:

According to FCC Part 15 Subpart C Section 15.212, the radio elements of the modular transmitter must have their own shielding. However, due to there is no shielding for this Bluetooth Module, this module is granted as a Limited Modular Approval. When this Bluetooth Module is installed into the end product, a Class II Permissive Change or a New FCC ID submission is required to ensure the full compliance of FCC relevant requirements.

Please use only allowed PCB antenna below.

(Type: PCB Antenna, Gain: 2.8dBi, and connector using the special jack (I-pex) which fulfills the Antenna requirement (15.203), Use other antenna may subject to additional testing and filing to FCC.