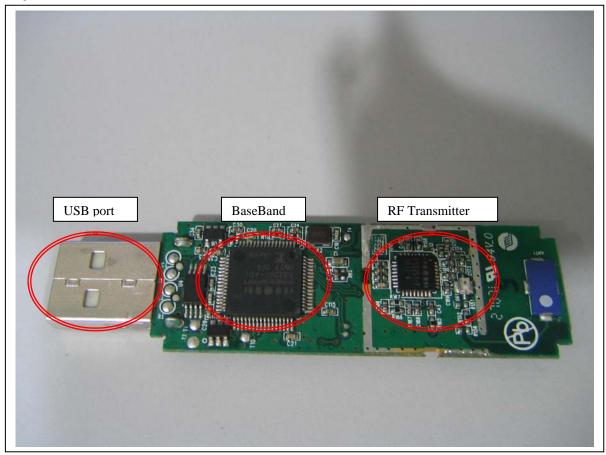
# **Jupiter EMI Test Document**

#### 1. Jupiter EMI test DUT



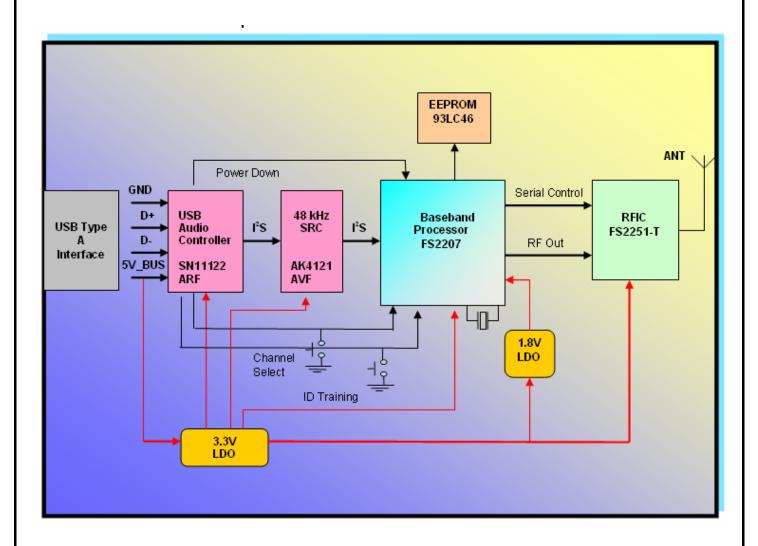
## 2. Description on DUT

- Jupiter wireless USB Audio transmitter is operating at 2.4GHz ISM band. It is designed as a FSK digital 2.4GHz transmitter.
- The Wireless USB transmitter works with Windows 98, Windows ME, Windows 2000, Windows XP, Mac OS 9 and Mac OS X (with the latest fixes from Apple).
- It is a USB plug-and-play Audio transmitter.
- U27 is a USB steaming Audio controller. It receives Audio stream from PC via USB interface and sends digital audio data in I2S format to U1.
- U1 is digital sample rate converter. It receives digital Audio streaming data from U27 and sends out digital data to U3 after doing SRC.
- U3 is a wireless digital Audio processor baseband IC. Its core supply is +1.8V and I/O supply is +3V.
- U3 is configured in transmit mode. It re-formats the digital audio streaming data by adding some ID and ECC information.

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- The IC U4, EEPROM 93LC46 who stores the customization and configuration of the specific function of the U3.
- U3 also controls U15, which is a single chip 2.4GHz FSK transmitter. U15 modulates the processed digital Audio streaming data to 2.4GHz RF signal and deliver to the antenna input. The antenna radiates it to the air.
- The RF channel could be changed by external control.

## 3. BLOCK DIAGRAMS



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### 4. Specifications

• RF Channel: 8

• Channel Frequency:

Channel	Frequency (MHz)
1	2405.376
2	2466.816
3	2415.616
4	2456.576
5	2425.856
6	2446.336
7	2436.096
8	2477.056

## Output power

10dBm (Max.)

#### Power supply

USB power supply (+5V)

• Modulation type: FSK (Digital modulation)

• Antenna: Chip antenna

Antenna Gain: 2.5dBi(Max.)

#### 5. Operating Manual

- Plug the device into the USB port of a PC. It will be powered on and transmitting at Channel
   1.
- Press the Channel button once, the device will change the transmit channel to the next.
- Press and hold "PAIRING" button on the USB Dongle, the device will go into the ID training mode.
- Plug out the device form USB port to power off the device.

### 6. Regulation for EMI test

FCC part 15.247 & ETSI EN 300.440

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