Overview

The WTX1010 Wireless Audio Module is the ideal solution for customers ready to make their audio products wireless. Whether you're in the development stage or ready to mass manufacture, the WTX1010 will provide the reliable, standards-compliant, guaranteed performance you need.

Product Highlights
RF Performance Optimized and Guaranteed
WTX1010 modules are thoroughly optimized and tested to ensure consistent and superior RF performance.

Small Form Factor
The WTX1010 minimal size makes it easy to integrate into existing enclosures.

Electrical Characteristics
Outdoor range (LOS) 15m.
Transmitting Power - 0 dBm.
Audio input voltage - 0.7Vrms
Analog Audio THD+N - -72dB
Frequency ISM 2.405 - 2.477 GHz.

Power requirements
Supply Voltage Range 3.0 - 3.6 VDC
Nominal Supply voltage – 3.3VDC
Current Consumption – 40mA

Physical Specifications
Operating Temperature 0 to 70 °C / 32 to 158 °F

FCC Compliance
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. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IC Compliance
This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

When integrating the WTX1010 module into your own product, you must:
Use only the provided chip antenna.
Operate the module according to the specifications listed in this data sheet.
Include a label clearly visible on the exterior of the product which states: "Contains FCC ID: WUO-WTX1010 / IC: 7985A-WTX1010".
It is mandatory that you consult all FCC and IC documentation for use of a modular approved product, and comply with all listed guidelines and additional testing that may be required.

Module Connection specifications
Pin description

Pin Number	Pin Name	Pin Description
1	LINE_IN_COM2	Audio section ground
2	LINE_IN_COM	Audio section ground
3	LINE_IN	Audio section input
4	NOT CONNECTED	
5	NOT CONNECTED	
6	GND	Digital section ground
7	V3.3	Main power supply (3.3V)
8	ADAT/GPIO1	I2S digital audio data output, GPIO
9	LRCLK/GPIO2	I2S digital audio frame clock input, GPIO
10	BCLK/GPIO3	I2S digital audio bit clock input, GPIO
11	LED	LED drive line
12	RESET_N	Active low Reset input
13	CMP	Comparator input
14	S_MOSI/S_CLK/GPIO12	SPI slave serial data input, I2C slave clock, GPIO
15	S_MISO/S_SDA/GPIO13	SPI slave serial data output, I2C slave data, GPIO
16	S_SCLK/GPIO14	SPI slave clock, GPIO
17	S_SSB/GPIO15	SPI slave select, GPIO
18	UART_RX/GPIO6	UART receive, GPIO
19	UART_TX/GPIO7	UART, transmit, GPIO
20	M_MOSI/M_SDA/GPIO4	SPI master serial data output, I2C master clock, GPIO
21	M_MISO/M_SDA/GPIO6	SPI master serial data input, I2C mater data, GPIO
22	M_SCLK/GPIO8	SPI mater serial clock, GPIO
23	M_SSB/GPIO9	SPI master serial select, GPIO
24	GND	Digital section ground

Module Dimensions: