

Overview

The 770102 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 770102 will provide the reliable, standards-compliant, guaranteed performance you need.



Product Highlights

RF Performance Optimized and Guaranteed

770102 modules are thoroughly optimized and tested to ensure consistent and superior RF performance.

Small Form Factor

The 770102 minimal size makes it easy to integrate into existing enclosures.

Firmware

We can customize firmware on the module for our customers.

IO Pins

4 Digital Audio pins configured as LJ/I2S/RJ audio configuration.

6 GPIO shared with Micro-controller programming pins.

Other Features

RoHS compliant.

RF Characteristics

Outdoor range 30m.

Transmitting Power - 15 dBm.

Receiver Sensitivity -78 dBm.

Frequency ISM 2.404 - 2.475 GHz.

Operation mode – Adaptive FHSS.

Power requirements

Supply Voltage Range 2.3 - 3.6 VDC

Nominal Supply voltage – 3.3VDC

Current Requirements - 200mA

Physical Specifications

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

Antenna – PCB "F" configuration.

SONAVOX Inc.

Wireless Audio Transceiver Module - 770102

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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 770102 module into your own product, you must:

Use only the provided PCB 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-770102 / IC: 7985A-770102".

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	Description
1	BCK – Digital audio – Bit clock
2	LRCLK – Digital Audio – Left/Right Clock
3	SDATA – Digital Audio - Data
4	MCLK – Digital audio – System Clock
5,7,9,20	GND
6	RF_TxRx_Vcc (+3.3V)
8	Control_Vcc (+3.3V)
10	RF_PA_CTRL_Vcc (+3.3V)
11	TDI/O_GPIO[1] – Micro-controller programming pin / General Purpose IO pin
12	TDI_GPIO[2] - Micro-controller programming pin / General Purpose IO pin
13	TMS_GPIO[3] - Micro-controller programming pin / General Purpose IO pin
14	TCK_GPIO[4] - Micro-controller programming pin / General Purpose IO pin
15	uC_TEST Micro-controller programming pin
16,17	GPIO[5], GPIO[6] - General Purpose IO pin
18	uC_RST - Micro-controller programming pin
19	RF_PA_Vcc (+3.3V)

Module Footprint

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