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Integration manual for integrating CX870-3JB
module (FCC ID:2AAJM-UNM43; IC:11203A-UNM43) into Unmonday's wireless
audio speaker model 4.3 with 2JWI01 antenna(s)

V. 1.0, April 2015



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Overview

Unmonday's model 4.3 wireless audio speaker ("Speaker") provides music streaming over WiFi connection utilizing 802.11b/g based on JukeBlox module ("Module") and 2JWI01 Antenna ("Antenna")

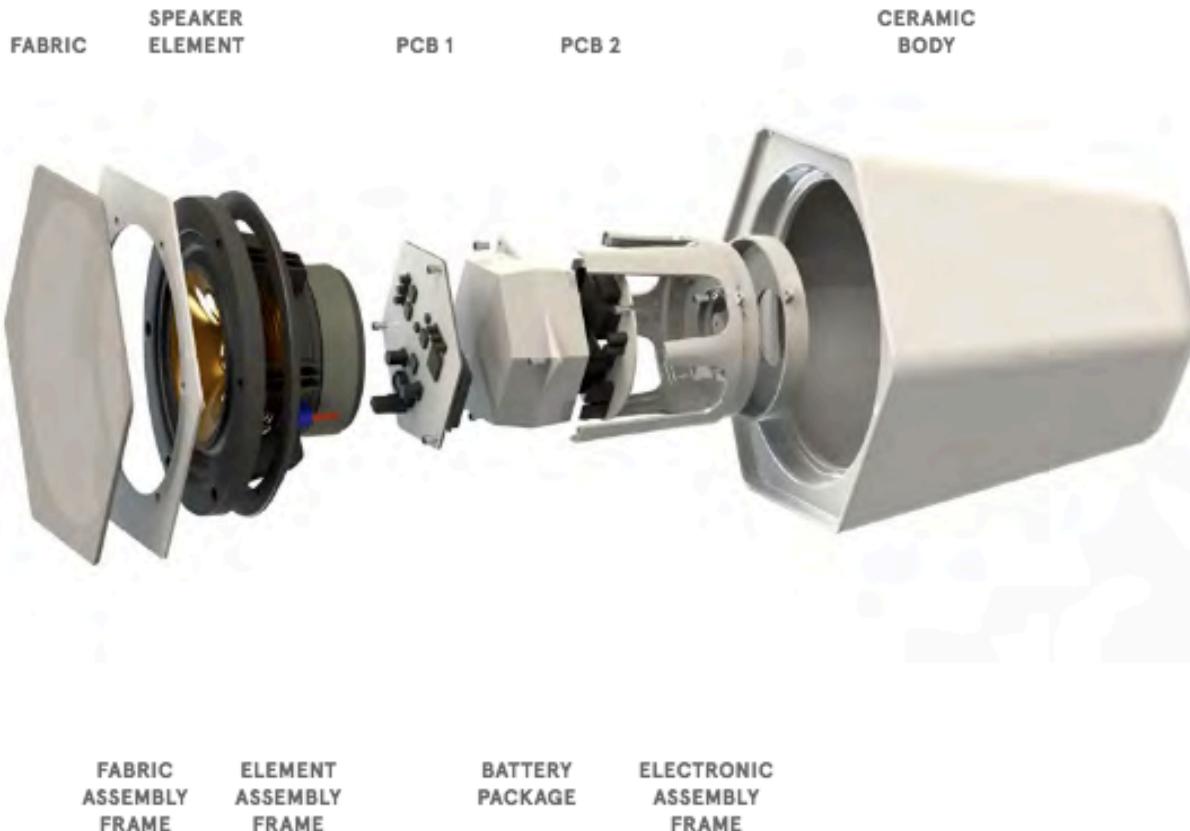
Speaker specification and technical information

Dimensions (WxHxD)	230 x 205 x 225 mm
Dimensions (WxHxD)	9.05 x 8.07 x 8.86 in
Weight	3.8 kg
Colours / Enclosure	White Vitro Porcelain
Colours / Canvas Grill	Snow White, 100% Recycled PES
Integrated Power Supply	110 - 240 VAC input, 26 VDC output
Battery	Li-ion, 6S1P, 2600 mAh
Battery time	8 hrs
Power Supply Housing	Plastic
Power Amplifier	Class D 20 W
Speaker Driver	6" Full Range Speaker, MarkAudio Alpair Gold 10.3, Unmonday Edition
External Connections	3.5 mm Line-input
Wireless Receiver	WiFi Apple AirPlay
Motion Sensor	3 Axis

Module is the only transmitter in the device.

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Speaker Construction



Antenna Specifications

2JWI01 Patch Mount antenna Electrical Specifications

Frequencies	WIFI / BLUETOOTH (2.4 GHz) WIFI (5.1 - 5.9 GHz)
Impedance	50 Ohms
Polarization	Linear
Gain	2.4GHz: 2dBi / 5GHz: 5dBi
VSWR	<3:1
Operating temperature	-40°C to +85°C
Connector type:	U.FL
Cable:	Microcoax 1,13mm

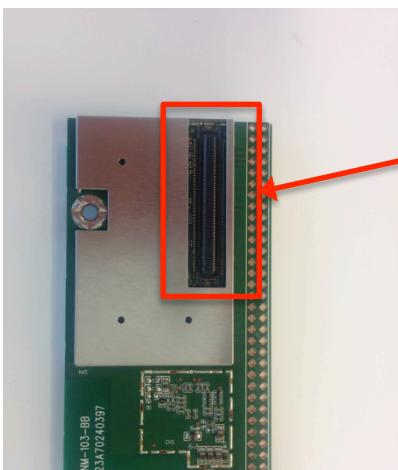
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Cable length:	30 cm
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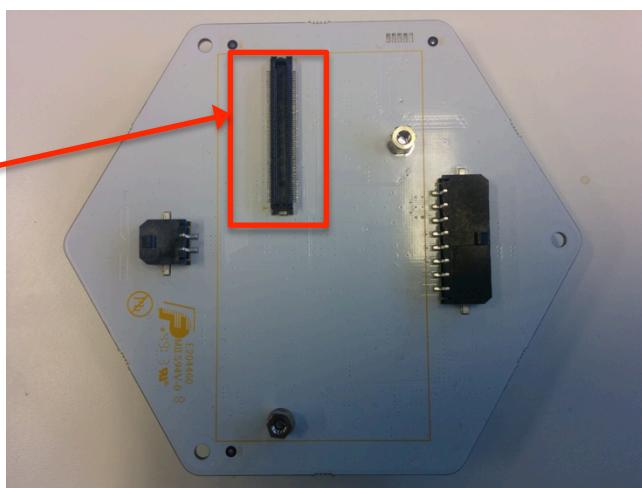
Integration of Module to Speaker

The integration is done by connecting Module to Speaker using the Modules's media connector.

Module



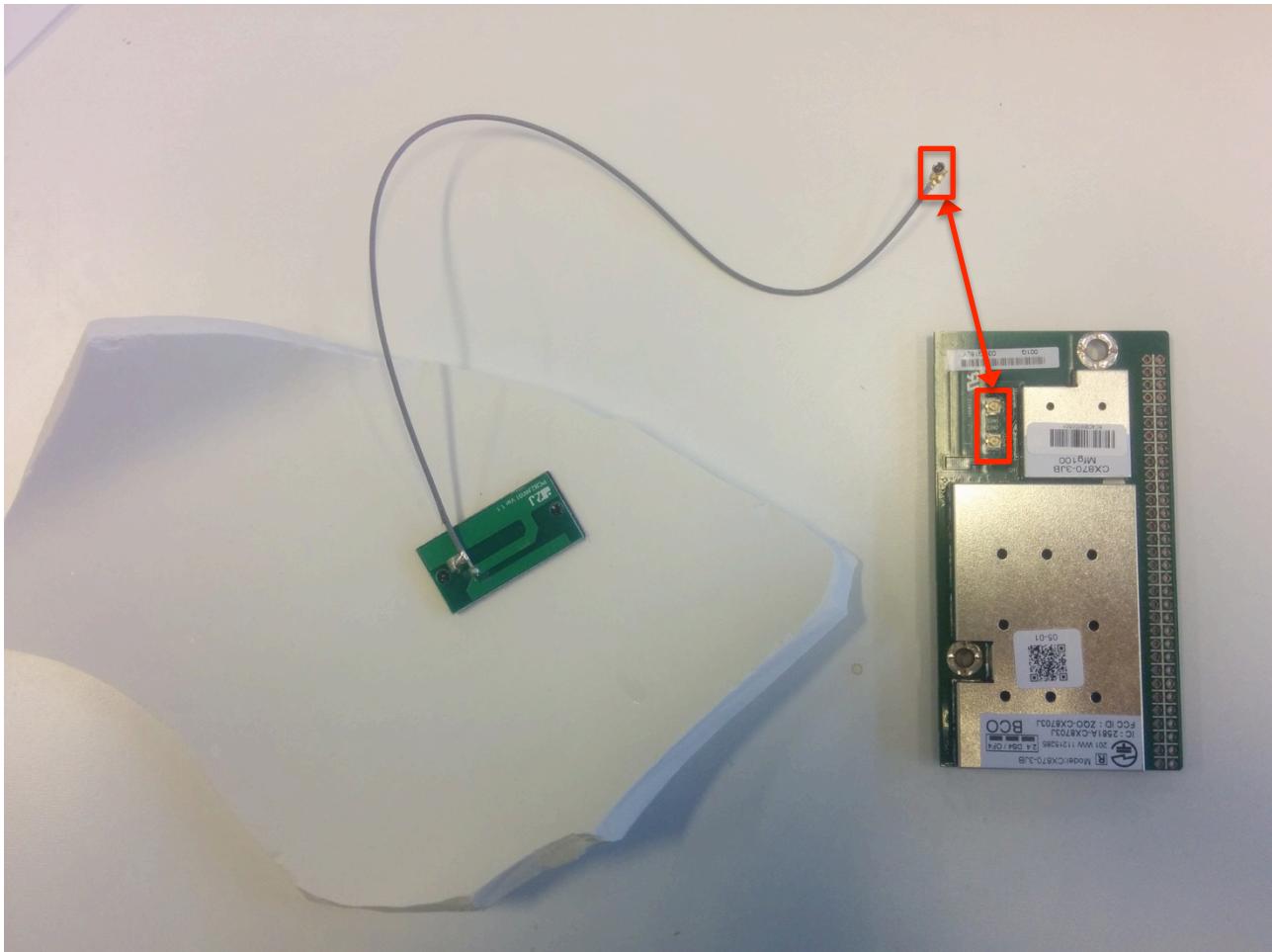
Unmonday's Speaker



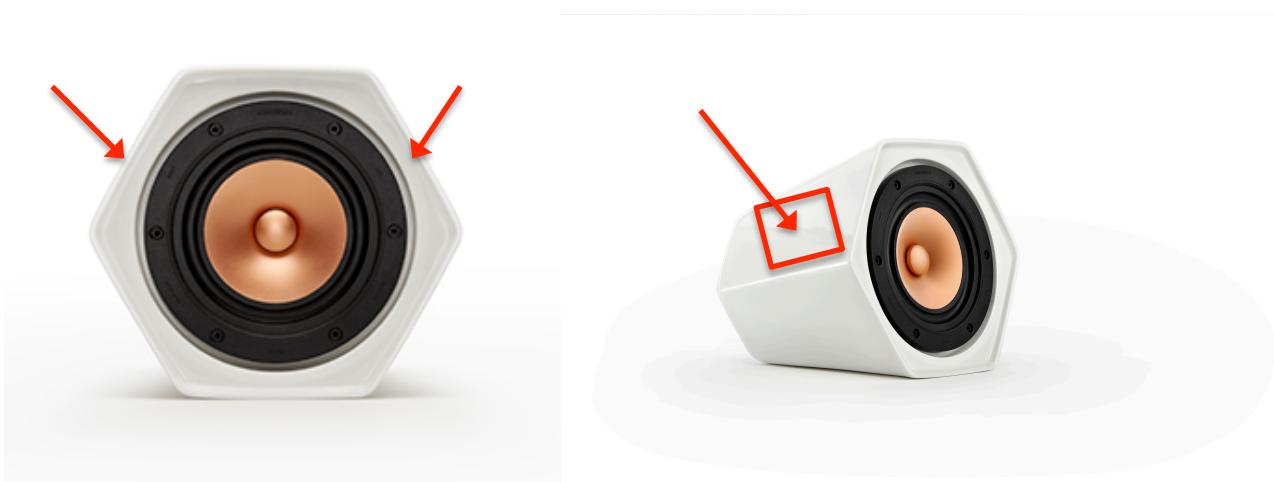
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Integrating Antennas to Module

Antenna integration is done by connecting the Antenna's cable to Module's External Antenna Connectors.



Antenna placement is given below from outside view.



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REGULATORY STATEMENTS

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

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.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

Labeling requirements

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. Host product (Speaker) must contain a label on the exterior of the product that states "Contains FCC ID: 2AAJM-UNM43".

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

Canada, Industry Canada (IC) Notices

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause

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undesired operation of the device.

Host product (Speaker) must contain a label on the exterior of the product that states "Contains IC ID: 11203A-UNM43".

Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has also been evaluated and shown compliant with the IC RF Exposure limits under mobile exposure conditions. (antennas are greater than 20cm from a person's body).

Canada, avis d'Industry Canada (IC)

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003 et RSS-210. Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

Le produit hôte (haut-parleur) doit porter une étiquette sur l'extérieur du produit avec la mention "Contient IC ID: 11203A-UNM43".

Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil de sans fil Dell est inférieure à la limite d'exposition aux fréquences radio d'Industry Canada (IC). Utilisez l'appareil de sans fil Dell de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce périphérique a également été évalué et démontré conforme aux limites d'exposition aux RF d'IC dans des conditions d'exposition à des appareils mobiles (les antennes se situent à moins de 20 cm du corps d'une personne).

This radio transmitter IC: 11203A-UNM43 has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Ce radio-émetteur IC: 11203A-UNM43 a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne indiqués. Les types d'antenne non inscrits sur cette liste ont une fonction de gain supérieure au maximum indiqué pour ce type et sont strictement interdits d'utilisation avec cet appareil.

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Antenna List

No.	Manufacturer	Part No.	Anten	Impedance	Peak Gain
1	MAG.LAYERS	EDA-8709-2G4C1-A66	Dipole Antenna	50Ω	2 dBi for 2.4GHz
2	2J	2JWI01	Patch Mount	50Ω	2dBi for 2.4GHz 5dBi for 5GHz

Liste d'antennes

Nº	du fabricant	Nº de la pièce.	Type d'antenne	Impédance	Gain de crête
1	MAG.LAYERS	EDA-8709-2G4C1-A66	Antenne dipôle	50Ω	2 dBi pour 2.4GHz
2	2J	2JWI01	Antenne pastille	50Ω	2dBi pour 2.4GHz 5dBi pour 5GHz