Sample size : WH-L1 Base

Substrate size 50mm x 87mm/PCB t=1.0mm

weight
Operating temperature

range 0° C^45^C

Storage temperature -10° 55°C range JST PH port 9Pin

Signal connector Pairing LED (orange)/Power LED (red) not yet in mass production

reveal

User interface Band selector DIP Switch (For shop use)

Radio department 2.4 GHz Hopping/TDMA/FSK modulation

Radio frequency output +16.5 dBm (TYP)

bandwidth 2400MHzto2480 MHz

Stable access distance 3m

12S input 48KHz 16position BCLK/LRCK/DATA 3. 3V

Analog input ADC 0dBFS=1.68 Vrms/2passage

Voice transmission Uncompressed 48KHz 16-bit

Supply voltage 12VDC (11. 5 Vto12. 5 V)

Current consumption 50 mA (TBD)

Radio authentication

Japan /USA/CANADA/EU/ UK /UZ/NZ

ESD tolerance Contact \pm 4KV/ air soil 8KV

Audio specification: WH-L1 Base

SNR: 86dB (TYP) I2S Mode THD+N: 0.06% (TYP) I2S Mode

Pass band : 12.0Hz (-3.0dB) I2S Mode : 17.0KHz (-3.0dB) I2S Mode

Outside view

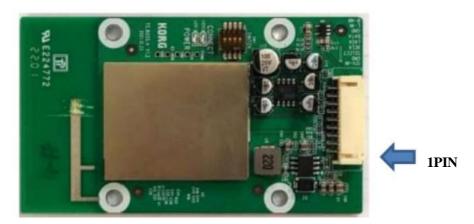


Figure 1-1; Basic appearance drawing

Operation instruction

When a 12VDC power supply is provided, the indicator (red) is on. After connecting to the Headphone, the indicator (orange) lights up.

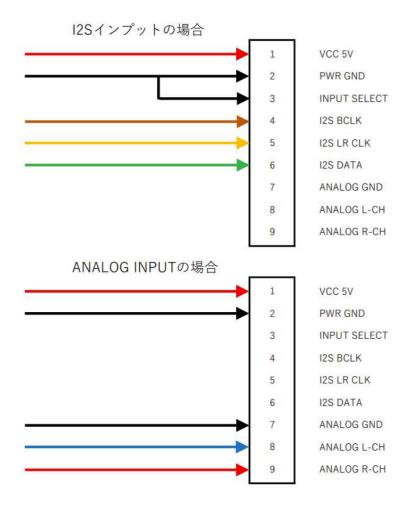
DIP switch Settings with selection (switch in power off state)

General user Settings	0000
Exhibition (Store Setup 1)	1000
Exhibition (Store Setup 2)	0100
Exhibition (Store Setup 3)	0010

Note: In general sales, the shipment must be set at 0000.

Power/signal connection connector

The connector uses S9B-PH-SM4-TB produced by JST in Japan. The pin configuration is as follows. Switching between I2S and analog inputs is determined automatically with 3 pins. (3PIN HI=ANALOG INPUT/LOW=I2S INPUT. PULL UP inside the substrate completed)



Check content during manufacturing

- 1. Confirm the internal voltage and current consumption
- 2, RF frequency calibration
- 3,RF TX POWER measurement
- 4, RF RX receiving sensitivity measurement
- 5, LED light confirmation
- 6. DIP SW action confirmation
- 7, analog input performance confirmation (SNR/THD/LR LEVEL)
- 8,12S input performance confirmation (SNR/THD/LRLEVEL)
- 9, appearance check 1, internal voltage, current consumption confirmation
- 2, RF frequency calibration
- 3,RF TX POWER measurement
- 4, RF RX receiving sensitivity measurement
- 5, LED light confirmation
- 6. DIP SW action confirmation
- 7, analog input performance confirmation (SNR/THD/LR LEVEL)
- 8,12S input performance confirmation (SNR/THD/LRLEVEL)
- 9. Appearance inspection

After final appearance inspection, packaging is carried out.

When the Base board is mounted on the piano

WH-L1 BASE does not have a plastic shell, and the baseboard and components are exposed, so it is very easy to electrostatic breakdown when electrostatic discharge flies directly to IC and other places. When installing to the piano, the worker handling the substrate should ensure that ESD measures are implemented.

Wireless stability

Since it is wireless communication, it is inevitable that communication will be interrupted due to interference. In addition, the 2.4GHz band is used by devices as diverse as microwave ovens, Wi-Fi, Bluetooth, codeless phones, and more. In the event of interference, only keep your distance from those devices.

FCC STATEMENT

1. 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.
- 2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's 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.

IC warning

- English:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). 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 undesired operation of the device.

FCC/ IC Radiation Exposure Statement

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body

- French:

Cet appareil contient des émetteurs / récepteurs exemptés de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radio électrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

FCC/ IC Déclaration d'exposition aux rayonnements

Cet appareil est conforme à FCC et IC l'exposition aux rayonnements limites fixées pour un environnement non contrôlé. Cet appareil doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps. Cet transmetteur ne doit pas être co-situé ou opérant en liaison avec toute autre antenne ou transmetteur.