

EYSGJNZXX, EYSGJNZWY

TAIYO YUDEN

Control No. HD-AG-A150049	(1/4)	Control name General Items
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Scope

This specification ("Specification") applies to the hybrid IC "EYSGJNZXX" and "EYSGJNZWY", a **Bluetooth**[®] 4.2 Low Energy module ("Product") manufactured by TAIYO YUDEN Co., Ltd. ("TAIYO YUDEN")

1. Type: EYSGJN

User Code: EYSGJNZXX (16kB RAM), EYSGJNZWY (32kB RAM)

*User Code may be changed for mass production or other cases.

2. Function:

Radio frequency module. **Bluetooth**[®] standard Ver 4.2 Low Energy conformity

3. Application: Health & Fitness Equipment, Sensor, Toys**4. Structure:**

Hybrid IC loaded with silicon monolithic semiconductor

Compatible with industrial standard reflow profile for Pb-free solders

Can meet with RoHS compliance (Pb, Cd, Hg, Cr⁺⁶, PBB, PBDE)

5. Outline: 11.3 x 5.1 x 1.3 mm

28-pin Land Grid Array

6. Marking: Part number, Lot number**7. Features:**

- Small outline by PCB substrate
- Low power consumption
- Integrated antenna
- Integrated system clock
- **Bluetooth**[®] 4.2 Low Energy conformity
 - Slave or Master Role

8. Packaging:

Packaging method: Tape & reel + aluminum moisture barrier bag

Packaging unit: 2000

*It might be provided as tray at sample stage.

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EYSGJNZXX, EYSGJNZWY

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Control No. HD-AG-A150049	(2/4)	Control name General Items
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9. Note:

- a. Any question arising from this Specification shall be solved through mutual discussion by the parties hereof.
- b. This Product is not designed to be radiation durable and should not be used under the circumstance of radiation.
- c. The operating conditions of this Product are as shown in this Specification. Please note that TAIYO YUDEN shall not be liable for a failure and/or abnormality which is caused by use under the conditions other than the operating conditions hereof.
- d. The Product mentioned in this Specification is manufactured for use in Health & Fitness Equipment, Sensor and Toys. Before using this Product in any special equipment (such as medical equipment, space equipment, air craft, disaster prevention equipment), where higher safety and reliability are duly required, the applicability and suitability of this Product must be fully evaluated by the customer at its sole risk to ensure correct and safe operation of these special equipments. Also, evaluation of the safety function of this Product even for use in general electronics equipment shall be thoroughly made and when necessary, a protective circuit shall be added during the design stage, all at the customer's sole risk.
- e. a) You are requested to fully check and confirm by the start of mass production of this Product that (1) no bug, defect or other failure is included in firmware incorporated in this Product ("Incorporated Software"), (2) no bug defect or other failure arising from installation of this Product in which is contained Incorporated Software into your products is included in Incorporated Software, and that Incorporated Software fully meets your intended use, although TAIYO YUDEN sufficiently inspects or verifies quality of Incorporated Software.
b) Please note that TAIYO YUDEN is not responsible for any failure arising out of bugs or defects in Incorporated Software.
- f. TAIYO YUDEN warrants only that this Product is in conformity with this Specification for one year after purchase and shall in no event give any other warranty.
- g. Communication between this Product and others might not be established nor maintained depending on radio environment or operating conditions of this Product and other *Bluetooth*[®] products.
- h. In order to test for Radio Law certification with a device incorporating this module, the Host Software must be able to put the module into test mode. Please contact TAIYO YUDEN for further details.
- i. This Product operates in the unlicensed ISM band at 2.4GHz. In case this Product is used around the other wireless devices which operate in same frequency band of this Product, there is a possibility that interference may occur between this Product and such other devices. If such interference occurs, please stop the operation of other devices or relocate this Product before using this Product or do not use this Product around the other wireless devices.
- j. Please thoroughly evaluate our module with your products before going mass production.
- k. User Code Modification Notice.
User Code for sample modules or part numbers in this Specification are TAIYO YUDEN standard part numbers. When any modification is made to a module to meet requested specifications, the part number will be changed. Please contact TAIYO YUDEN to confirm whether your part number needs to be modified.
Please see the following examples for cases when part numbers are modified:
 - for specific firmware version (our standard item firmware will be upgraded occasionally)
 - for other relevant cases (specific or different setting, form, sizes, or display etc..)

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