Wireless Module

*Bluetooth*® *low energy* Module

Overview

Dec. 9, 2016 Version 1.4
Taiyo Yuden Bluetooth® low energy Module Line-Up

Taiyo Yuden Bluetooth® low energy Module

nRF52832 Module

EYSHCN Series

Big

- Embedded antenna
- Int. 32kHz X’tal
- Int. LC for DC/DC
- 9.6 x 12.9 x 2.0 mm

EYSHCN ZXZ

- RAM 64kB
- SoftDevice S132

EYSHJN Series

Small

- Embedded antenna
- Ext. 32kHz X’tal
- Ext. LC for DC/DC
- 5.1 x 11.3 x 1.3 mm

EYSHJN ZXZ

nRF51422 Module
nRF51822 Module

EYSGCN Series

EYSGJN Series

EYAGJN Series
### Latest Documents for Bluetooth® low energy Module

<table>
<thead>
<tr>
<th>Model</th>
<th>URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYSHCNZXZ</td>
<td><a href="http://www.yuden.co.jp/or/product/category/module/EYSHCNZXZ.html">http://www.yuden.co.jp/or/product/category/module/EYSHCNZXZ.html</a></td>
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<td>EYSHJNZXZ</td>
<td><a href="http://www.yuden.co.jp/or/product/category/module/EYSHJNZXZ.html">http://www.yuden.co.jp/or/product/category/module/EYSHJNZXZ.html</a></td>
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<td>EYSGCNZX X</td>
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<td>EYSGCNAW Y-1X</td>
<td><a href="http://www.yuden.co.jp/or/product/category/module/EYSGCNAWY-1X.html">http://www.yuden.co.jp/or/product/category/module/EYSGCNAWY-1X.html</a></td>
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<td>EYSGCNAW Y- W X</td>
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<td>EYSFCN ZX X</td>
<td><a href="http://www.yuden.co.jp/or/product/category/module/EYSFCNZXX.html">http://www.yuden.co.jp/or/product/category/module/EYSFCNZXX.html</a></td>
</tr>
</tbody>
</table>

- The documents for the evaluation board and evaluation kit are also available on the above page.
- The Japanese documents are available on the following page.
  [http://www.yuden.co.jp/jp/product/category/module/lineup.html#Bluetooth](http://www.yuden.co.jp/jp/product/category/module/lineup.html#Bluetooth)
Bluetooth® low energy Module: EYSHCNZXZ

**Features**
- Frequency: 2402 to 2480 MHz with +4dBm Output power
- Single power supply: 1.7 – 3.6V
- Single Mode Bluetooth low energy Slave/Master (ANT™ Available)
- Chip: nRF52832 (Nordic)
- Integrated System/Sleep Clock, LC for DC/DC
- Integrated high performance ceramic chip antenna
- ARM Cortex M4F 32bit processor
- 512kB Flash and 64kB RAM
- Interface: SPI, UART, I2C, I2S, PDM and 12bit ADC
- Support NFC-A Type-2 for Touch-to-Pair
- Outline: 9.6 x 12.9 x 2.0 mm with 1mm pad pitch
- Operating Temperature range: -40 to 85 deg-C
- Bluetooth and Japan, FCC, IC qualified
- CE Conducted Test Report Available
- RoHS compliant / Complete Lead Free

**Applications**
- Cycle computer
- Heart rate monitor
- Blood pressure monitor
- Blood glucose meter
- Weighing machine
- Thermometer
- Mobile accessories
- Sports and fitness sensors
- Remote controllers / Toys

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# Bluetooth® low energy Module Sample, Evaluation Board / Kit

<table>
<thead>
<tr>
<th>EYSHCNZXZ (Module)</th>
<th>EBSHCNZXZ (EV-B)</th>
<th>EKSHCNZXZ (EV-K)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Module samples</strong></td>
<td><strong>Evaluation board</strong></td>
<td><strong>Evaluation kit</strong></td>
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<tr>
<td><img src="image1.png" alt="Module Sample" /></td>
<td><img src="image2.png" alt="Evaluation Board" /></td>
<td><img src="image3.png" alt="Evaluation Kit" /></td>
</tr>
</tbody>
</table>

- **Module samples**
  - EYSHCNZXZ (Module)

- **Evaluation board**
  - EBSHCNZXZ (EV-B)

- **Evaluation kit**
  - EKSHCNZXZ (EV-K)

  SEGGER J-Link LITE Attached
**Features**

- Frequency: 2402 to 2480 MHz with +4dBm Output power
- Single power supply: 1.7–3.6V
- Single Mode Bluetooth low energy Slave (ANT™ Available)
- Chip: nRF52832 (Nordic)
- Integrated System Clock
- ARM Cortex M4F 32bit processor
- 512kB Flash and 64kB RAM
- Interface: SPI, UART, I2C, I2S, PDM and 12bit ADC
- Support NFC-A Type-2 for Touch-to-Pair
- Integrated high performance pattern antenna
- Outline: 5.1 x 11.3 x 1.3mm MAX
- Operating Temperature range: -40 to 85 deg-C
- Bluetooth and Japan, FCC, IC qualified
- CE Conducted Test Report Available
- RoHS compliant / Complete Lead Free

**Applications**

- Cycle computer
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- Remote controllers / Toys

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TAIYO YUDEN
# Bluetooth® Low Energy Module Sample, Evaluation Board / Kit

## EYSJHNZXZ (Module)
- **Module samples**

## EBSJHNZXZ (EV-B)
- **Evaluation board**

## EKSJHNZXZ (EV-K)
- **Evaluation kit**
  - SEGGER J-Link LITE Attached

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**TAIYO YUDEN**
Features
• Frequency: 2402 to 2480 MHz
• Output power: +4dBm typ.
• Single power supply: 1.8 – 3.6V
• Single Mode Bluetooth low energy Slave
• Chip: nRF51822 Rev.3 (Nordic)
• Integrated System/Sleep Clock
• Integrated high performance ceramic chip antenna
• ARM Cortex M0 32bit processor
• 256kB Flash and 16kB RAM
• Interface: SPI, UART, I2C and 8/9/10bit ADC
• Outline: 9.6 x 12.9 x 2.0 mm with 1mm pad pitch
• Operating Temperature range: -25 to 75 deg-C
• Bluetooth and Japan, FCC, IC qualified
• CE Conducted Test Report Available
• RoHS compliant / Complete Lead Free

Applications
• Cycle computer
• Heart rate monitor
• Blood pressure monitor
• Blood glucose meter
• Weighing machine
• Thermometer
• Mobile accessories
• Sports and fitness sensors
• Remote controllers / Toys

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Bluetooth® low energy Module: EYSGCNZWY

Features
- Frequency: 2402 to 2480 MHz
- Output power: +4dBm typ.
- Single power supply: 1.8 – 3.6V
- Single Mode Bluetooth low energy Slave / Master
- Chip: nRF51822 Rev.3 (Nordic)
- Integrated System/Sleep Clock
- Integrated high performance ceramic chip antenna
- ARM Cortex M0 32bit processor
- 256kB Flash and 32kB RAM
- Interface: SPI, UART, I2C and 8/9/10bit ADC
- Outline: 9.6 x 12.9 x 2.0 mm with 1mm pad pitch
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Applications
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- Sports and fitness sensors
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Bluetooth® low energy Module Sample, Evaluation Board / Kit

<table>
<thead>
<tr>
<th>EYSGCNZXX, EYSGCNZWY (Module)</th>
<th>EBSGCNZWY (EV-B)</th>
<th>EKSGCNZWY (EV-K)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module samples</td>
<td>Evaluation board</td>
<td>Evaluation kit</td>
</tr>
</tbody>
</table>

- SEGGER J-Link LITE Attached
Bluetooth® low energy Module  EYSGJNZXX

Features
- Frequency: 2402 to 2480 MHz
- Output power: +4dBm typ.
- Single power supply: 1.8 – 3.6V
- Single Mode Bluetooth low energy Slave
- Chip: nRF51822 Rev.3 (Nordic)
- Integrated System Clock
- ARM Cortex M0 32bit processor
- 256kB Flash and 16kB RAM
- Interface: SPI, UART, I2C and 8/9/10bit ADC
- Integrated high performance pattern antenna
- Outline: 5.1 x 11.3 x 1.3mm MAX
- Operating Temperature range: -25 to 75 deg-C
- Bluetooth and Japan, FCC, IC qualified
- CE Conducted Test Report Available
- RoHS compliant / Complete Lead Free

Outline

Outline: 5.1 x 11.3 x 1.3mm MAX

Applications
- Cycle computer
- Heart rate monitor
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- Blood glucose meter
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- Mobile accessories
- Sports and fitness sensors
- Remote controllers / Toys

Block Diagram

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TAIYO YUDEN
**Bluetooth® low energy Module** EYSJGNZYW

### Features
- Frequency: 2402 to 2480 MHz
- Output power: +4dBm typ.
- Single power supply: 1.8 – 3.6V
- Single Mode Bluetooth low energy Slave / Master
- Chip: nRF51822 Rev.3 (Nordic)
- Integrated System Clock
- ARM Cortex M0 32bit processor
- 256kB Flash and 32kB RAM
- Interface: SPI, UART, I2C and 8/9/10bit ADC
- Integrated high performance pattern antenna
- Outline: 5.1 x 11.3 x 1.3mm MAX
- Operating Temperature range: -25 to 75 deg-C
- Bluetooth and Japan, FCC, IC qualified
- CE Conducted Test Report Available
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### Outline
- Top View
- Bottom View

### Applications
- Cycle computer
- Heart rate monitor
- Blood pressure monitor
- Blood glucose meter
- Weighing machine
- Thermometer
- Mobile accessories
- Sports and fitness sensors
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### Block Diagram

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TAIYO YUDEN
Features

- Frequency: 2402 to 2480 MHz
- Output power: +4dBm typ.
- Single power supply: 1.8 – 3.6V
- ANT + Single Mode Bluetooth low energy Slave
- Chip: nRF51422 Rev 3 (Nordic)
- Integrated System Clock
- ARM Cortex M0 32bit processor
- 256kB Flash and 32kB RAM
- Interface: SPI, UART, I2C and 8/9/10bit ADC
- Integrated high performance pattern antenna
- Outline: 5.1 x 11.3 x 1.3mm MAX
- Operating Temperature range: -25 to 75 deg-C
- Bluetooth and Japan, FCC, IC qualified
- CE Conducted Test Report Available
- RoHS compliant / Complete Lead Free

Outline

- Chip: nRF51422 Rev 3 (Nordic)
- ARM Cortex M0 32bit processor
- 256kB Flash and 32kB RAM
- Interface: SPI, UART, I2C and 8/9/10bit ADC
- Integrated high performance pattern antenna
- Outline: 5.1 x 11.3 x 1.3mm MAX
- Operating Temperature range: -25 to 75 deg-C
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Applications

- Cycle computer
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Taiyo Yuden
Bluetooth® low energy Module Sample, Evaluation Board / Kit

- **Module samples**
  - EYSGJNZXX, EYSGJNZWY, EYAGJNZXX (Module)

- **Evaluation board**
  - EBSGJNZWY, EBAGJNZXX (EV-B)

- **Evaluation kit**
  - EKSGJNZWY, EKAGJNZXX (EV-K)

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- **Module samples**
- **Evaluation board**
- **Evaluation kit**

---

SEGGER J-Link LITE Attached
Application Layer image for Basic Module

Bluetooth® low energy Device

nRF51822, 422 module

Application (Profiles)

Generic Attribute Server

Generic Attribute Client

SM

ATT

L2CAP

LL

PHY

DTM

Antenna

Switch

Sensors

Clock

LED

Data

Temperature Sensor

Power Regulator

32MHz X’tal

32kHz X’tal (EYSGCN)

Power Management

Nordic SDK

• Alert Notification
• Blood Pressure
• Cycling Speed and Cadence
• Glucose
• HID Mouse
• Heart Rate
• Phone Alert Status
• Proximity
• Running Speed and Cadence
• Time

Basic module will be written under GATT.

Softdevice

GAP: Generic Access Profile
SM: Security Manager
ATT: Attribute Protocol
L2CAP: Logical Link Control and Adaptation Protocol
LL: Link Layer
PHY: Physical Layer
DTM: Direct Test Mode

EYSGCN, EYSGJN, EYAGJN

Basic Module

TAIYO YUDEN
Bluetooth® low energy Module: **EYSGCNAWY-1X**

**Features**
- Frequency: 2402 to 2480 MHz
- Output power: +4dBm typ.
- Single power supply: 1.8 – 3.6V
- Single Mode Bluetooth low energy Slave / Master
- Chip: nRF51822 (Nordic)
- Integrated System/Sleep Clock
- Integrated high performance ceramic chip antenna
- ARM Cortex M0 32bit processor
- Application Embedded by Taiyo Yuden
- (TY’s App Lite Generic Data transfer, Battery Service)
- Interface: UART
- Outline: 9.6 x 12.9 x 2.0 mm with 1mm pad pitch
- Operating Temperature range: -25 to 75 deg-C
- Bluetooth and Japan, FCC, IC qualified
- CE Conducted Test Report Available
- RoHS compliant / Complete Lead Free

**Applications**
- Cycle computer
- Heart rate monitor
- Blood pressure monitor
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Bluetooth® low energy Module Sample, Evaluation Board

<table>
<thead>
<tr>
<th>EYSGCNAWAY-1X (Module)</th>
<th>EBSGCNAWAY-1X (EV-B)</th>
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</thead>
<tbody>
<tr>
<td>□ Module samples</td>
<td>□ Evaluation board</td>
</tr>
</tbody>
</table>

![Module samples image](image1)

![Evaluation board image](image2)
Bluetooth® low energy Module  EYSGJNAWY-1X

Features
- Frequency: 2402 to 2480 MHz
- Output power: +4dBm typ.
- Single power supply: 1.8 – 3.6V
- Single Mode Bluetooth low energy Slave / Master
- Chip: nRF51822 Rev3 (Nordic)
- Integrated System Clock
- ARM Cortex M0 32bit processor
- Application Embedded by Taiyo Yuden
  (TY’s App : Generic Data transfer, Battery Service)
- Interface: UART
- Integrated high performance pattern antenna
- Outline: 5.1 x 11.3 x 1.3mm MAX
- Operating Temperature range: -25 to 75 deg-C
- Bluetooth and Japan, FCC, IC qualified
- CE Conducted Test Report Available
- RoHS compliant / Complete Lead Free

Applications
- Cycle computer
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- Remote controllers / Toys

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TAIYO YUDEN
Bluetooth® low energy Module Sample, Evaluation Board

<table>
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<tr>
<th>EYSJNAWY-1X (Module)</th>
<th>EBSJNAWY-1X (EV-B)</th>
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<tbody>
<tr>
<td>Module samples</td>
<td>Evaluation board</td>
</tr>
</tbody>
</table>

TAIYO YUDEN
**Bluetooth® low energy Module: EYSGCNAWY-WX**

**Features**
- Frequency: 2402 to 2480 MHz
- Output power: +4dBm typ.
- Single power supply: 1.8 – 3.6V
- Single Mode Bluetooth low energy Slave / Master
- Chip: nRF51822 (Nordic)
- Integrated System/Sleep Clock
- Integrated high performance ceramic chip antenna
- ARM Cortex M0 32bit processor
- Application Embedded by Taiyo Yuden
  - (TY’s App : Generic Data transfer, Battery Service)
- Interface: UART
- Outline: 9.6 x 12.9 x 2.0 mm with 1mm pad pitch
- Operating Temperature range: -25 to 75 deg-C
- Bluetooth and Japan, FCC, IC qualified
- CE Conducted Test Report Available
- RoHS compliant / Complete Lead Free

**Applications**
- Cycle computer
- Heart rate monitor
- Blood pressure monitor
- Blood glucose meter
- Weighing machine
- Thermometer
- Mobile accessories
- Sports and fitness sensors
- Remote controllers / Toys

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Bluetooth® low energy Module Sample, Evaluation Board

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<tr>
<th>EYSGCNAWY-WX (Module)</th>
<th>EBSGCNAWY-WX (EV-B)</th>
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<td>Evaluation board</td>
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TAIYO YUDEN
Features
- Frequency: 2402 to 2480 MHz
- Output power: +4dBm typ.
- Single power supply: 1.8 – 3.6V
- Single Mode Bluetooth low energy Slave / Master
- Chip: nRF51822 Rev3 (Nordic)
- Integrated System Clock
- ARM Cortex M0 32bit processor
- Application Embedded by Taiyo Yuden
  - (TY’s App: Generic Data transfer, Battery Service)
- Interface: UART
- Integrated high performance pattern antenna
- Outline: 5.1 x 11.3 x 1.3mm MAX
- Operating Temperature range: -25 to 75 deg-C
- Bluetooth and Japan, FCC, IC qualified
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Bluetooth® low energy Module Sample, Evaluation Board

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<tbody>
<tr>
<td>Module samples</td>
<td>Evaluation board</td>
</tr>
</tbody>
</table>

[Image: Module samples and Evaluation board]
Application Layer image for Application Embedded Module

nRF51822 module

- Power Regulator
- 32MHz X’tal
- 32kHz X’tal (EYSGCN)

Antenna

Connection option

- **1X** module for Module - Module only
- **WX** module for Module – Module Module – Smart phone

Softdevice

- GAP: Generic Access Profile
- SM: Security Manager
- ATT: Attribute Protocol
- L2CAP: Logical Link Control and Adaptation Protocol
- LL: Link Layer
- PHY: Physical Layer
- DTM: Direct Test Mode

EYSGCN, EYSGJN
Application Embedded Module

TAIYO YUDEN
<table>
<thead>
<tr>
<th>Type</th>
<th>Part No.</th>
<th>Size (LxWxH)</th>
<th>Specification</th>
<th>ANT™ Support</th>
<th>I/F</th>
<th>RAM</th>
<th>Certification</th>
<th>Temperature</th>
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<tbody>
<tr>
<td>High Performance Basic</td>
<td>EYSHCNZXZ</td>
<td>9.6x12.9 X2.0mm</td>
<td></td>
<td>✔</td>
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<td>64kB</td>
<td></td>
<td>-40~+85 deg-C</td>
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<td></td>
<td>EYSHJNZXZ</td>
<td>5.1x11.3 X1.3mm</td>
<td></td>
<td>✔</td>
<td></td>
<td>64kB</td>
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<tr>
<td>Basic</td>
<td>EYSGCNZXX</td>
<td>9.6x12.9 x2.0mm</td>
<td>Bluetooth V4.2 BLE Single Slave/Master</td>
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<td>UART SPI I2C</td>
<td>16kB</td>
<td>Japan FCC IC (CE)※</td>
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<td>(Software Support : Nordic)</td>
<td>EYSGCNZWY</td>
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<td>EYSGJNZXX</td>
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<td>16kB</td>
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<td>32kB</td>
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<tr>
<td>Application Embedded Module –</td>
<td>EYSGCNAWY-1X</td>
<td>9.6x12.9 x2.0mm</td>
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<td>-25~+75 deg-C</td>
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<td>Module (Software Support : Taiyo Yuden)</td>
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<td></td>
<td>EYSGJNAWY-1X</td>
<td>5.1x11.3 x1.3mm</td>
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TAIYO YUDEN