

# **Wireless Module**

## ***Bluetooth® low energy* Module**

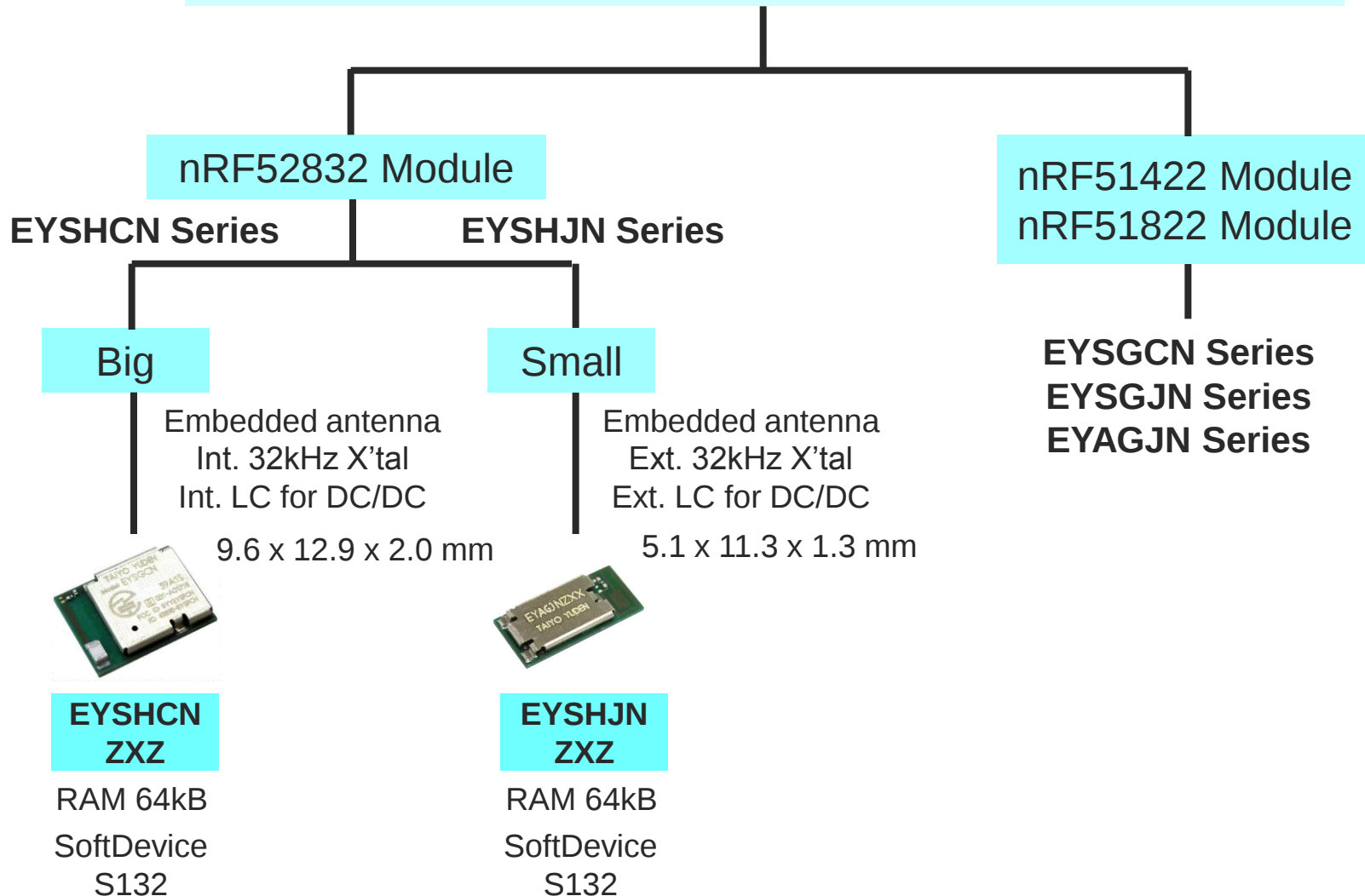
### **Overview**

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Dec. 9, 2016 Version 1.4

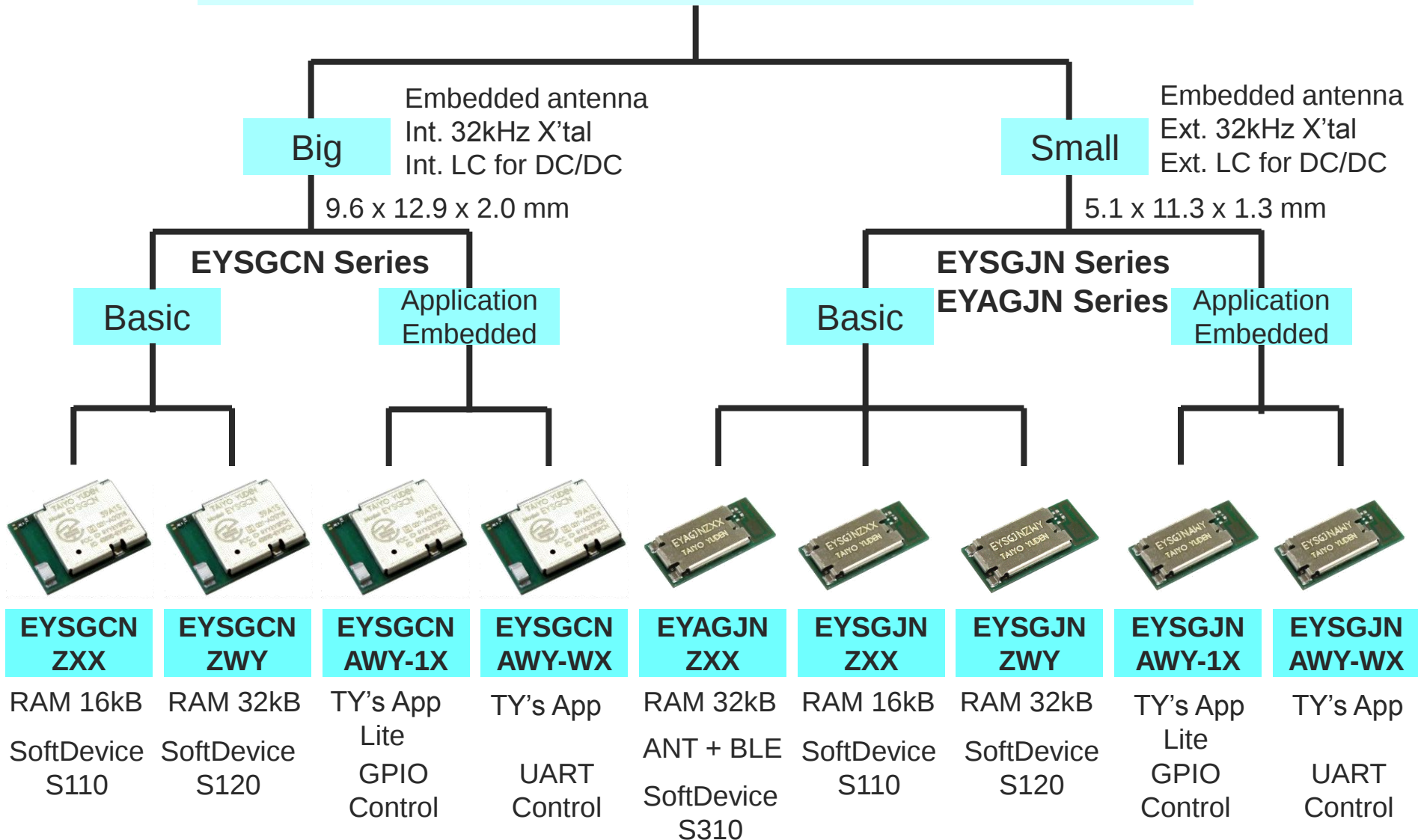
# Taiyo Yuden Bluetooth® low energy Module Line-Up

## Taiyo Yuden Bluetooth® low energy Module



# Taiyo Yuden Bluetooth® low energy Module Line-Up

## nRF51x22 Bluetooth® low energy Module



# Latest Documents for Bluetooth® low energy Module

|              |                                                                                                                                                       |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| EYSHCNZXZ    | <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>       |
| EYSHJNZXZ    | <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>       |
| EYSGCNZXX    | <a href="http://www.yuden.co.jp/or/product/category/module/EYSGCNZXX.html">http://www.yuden.co.jp/or/product/category/module/EYSGCNZXX.html</a>       |
| EYSGCNZWY    | <a href="http://www.yuden.co.jp/or/product/category/module/EYSGCNZWY.html">http://www.yuden.co.jp/or/product/category/module/EYSGCNZWY.html</a>       |
| EYSGJNZXX    | <a href="http://www.yuden.co.jp/or/product/category/module/EYSGJNZXX.html">http://www.yuden.co.jp/or/product/category/module/EYSGJNZXX.html</a>       |
| EYSGJNZWY    | <a href="http://www.yuden.co.jp/or/product/category/module/EYSGJNZWY.html">http://www.yuden.co.jp/or/product/category/module/EYSGJNZWY.html</a>       |
| EYAGJNZXX    | <a href="http://www.yuden.co.jp/or/product/category/module/EYAGJNZXX.html">http://www.yuden.co.jp/or/product/category/module/EYAGJNZXX.html</a>       |
| EYSGCNAWY-1X | <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> |
| EYSGJNAWY-1X | <a href="http://www.yuden.co.jp/or/product/category/module/EYSGJNAWY-1X.html">http://www.yuden.co.jp/or/product/category/module/EYSGJNAWY-1X.html</a> |
| EYSGCNAWY-WX | <a href="http://www.yuden.co.jp/or/product/category/module/EYSGJNAWY-WX.html">http://www.yuden.co.jp/or/product/category/module/EYSGJNAWY-WX.html</a> |
| EYSGJNAWY-WX | <a href="http://www.yuden.co.jp/or/product/category/module/EYSGJNAWY-WX.html">http://www.yuden.co.jp/or/product/category/module/EYSGJNAWY-WX.html</a> |
| EYSFCNZXX    | <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>       |

- 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>

# 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

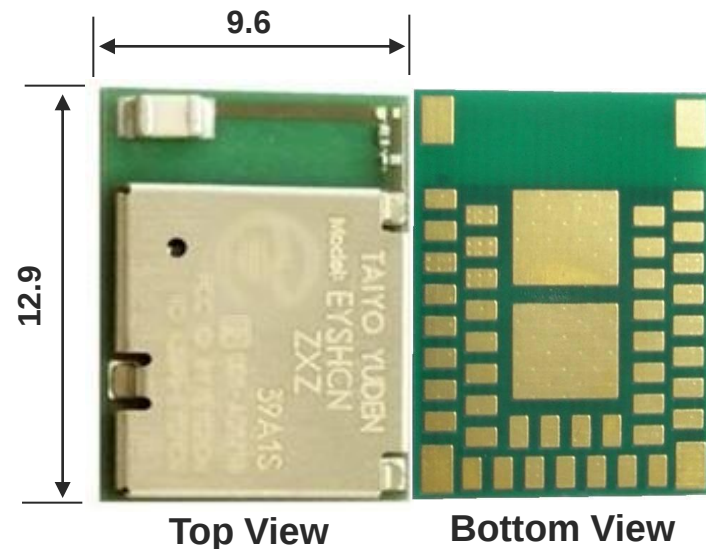
- Cycle computer
- Heart rate monitor
- Blood pressure monitor
- Blood glucose meter
- Weighing machine
- Thermometer
- Mobile accessories
- Sports and fitness sensors
- Remote controllers / Toys

All specifications are subject to change without notice.

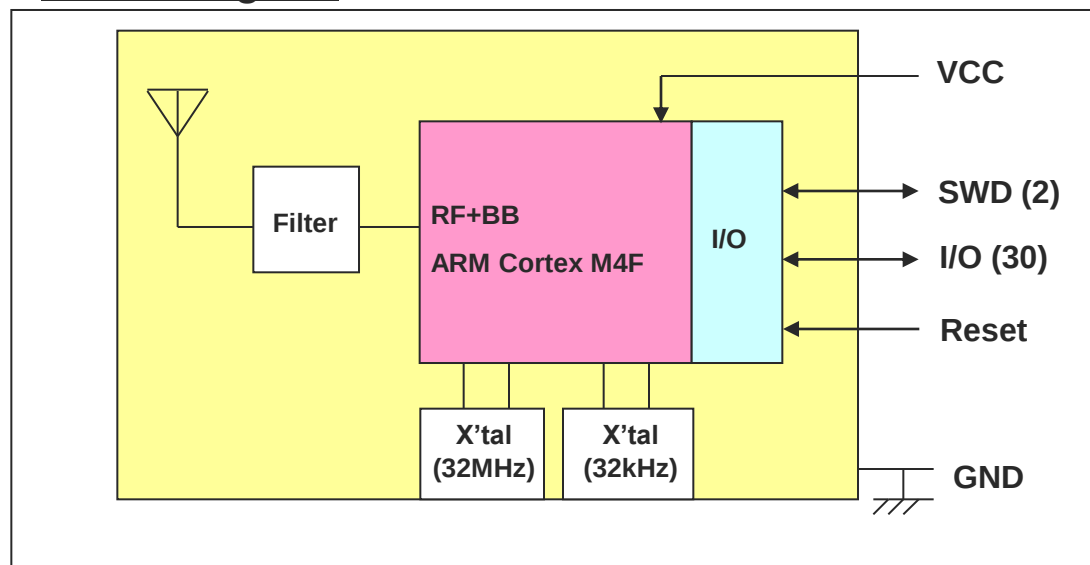
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## Outline

Unit: mm



## Block Diagram

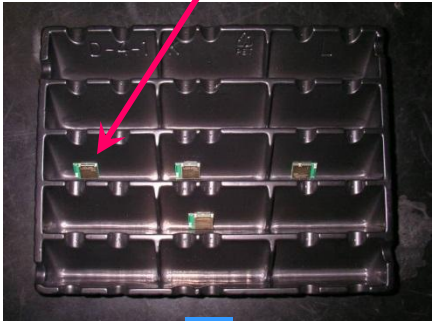
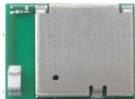


**TAIYO YUDEN**

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

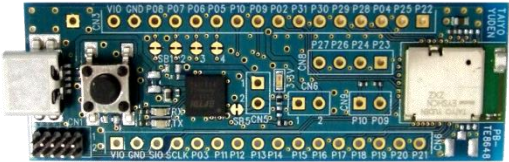
EYSHCNZXZ (Module)

Module samples



EBSHCNZXZ (EV-B)

Evaluation board



EKSHCNZXZ (EV-K)

Evaluation kit



SEGGER  
J-Link LITE  
Attached

# Bluetooth® low energy Module: **EYSHJNZXZ**

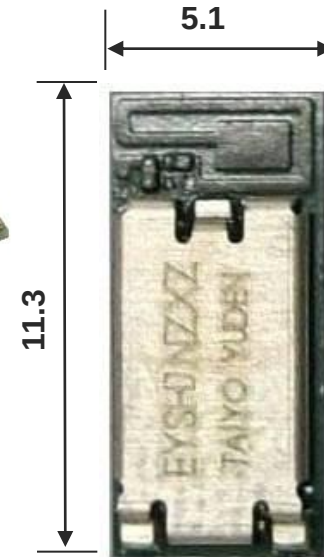
## Features

- 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 1.3**mm 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

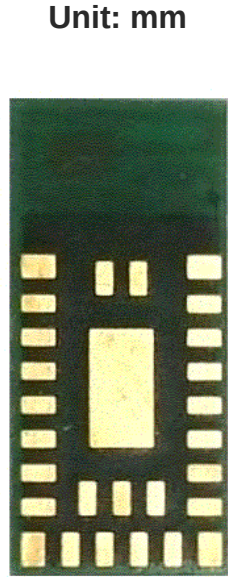
## Applications

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

## Outline



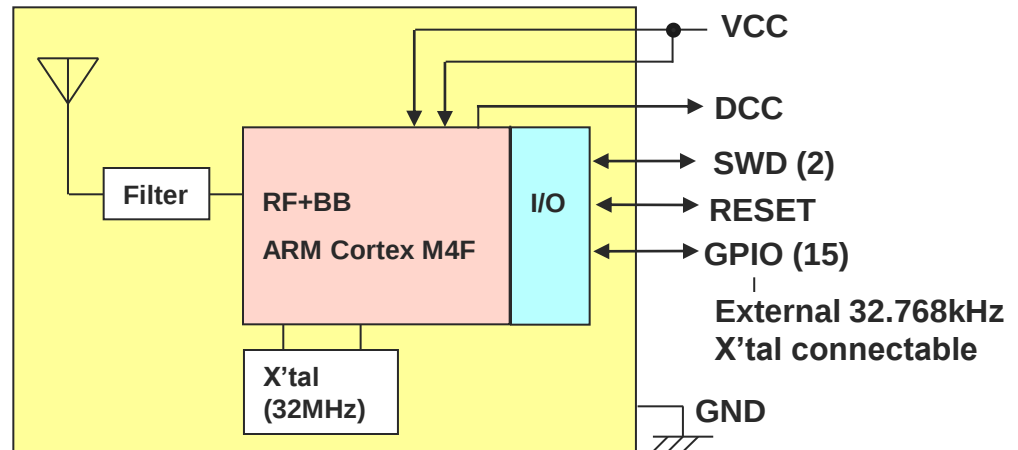
Top View



Bottom View

Unit: mm

## Block Diagram



All specifications are subject to change without notice.

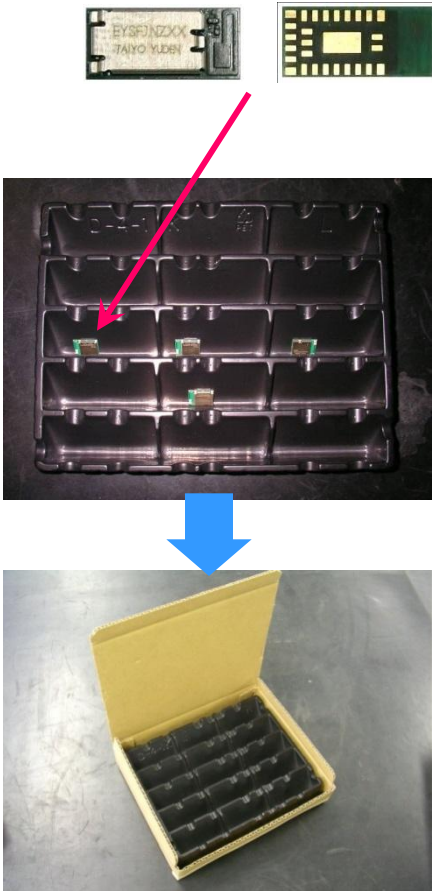
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# Bluetooth® low energy Module Sample, Evaluation Board / Kit

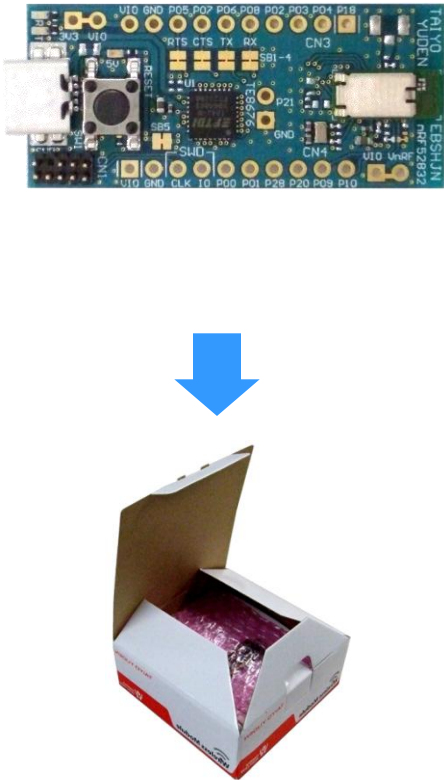
EYSHJNZXZ (Module)

## Module samples



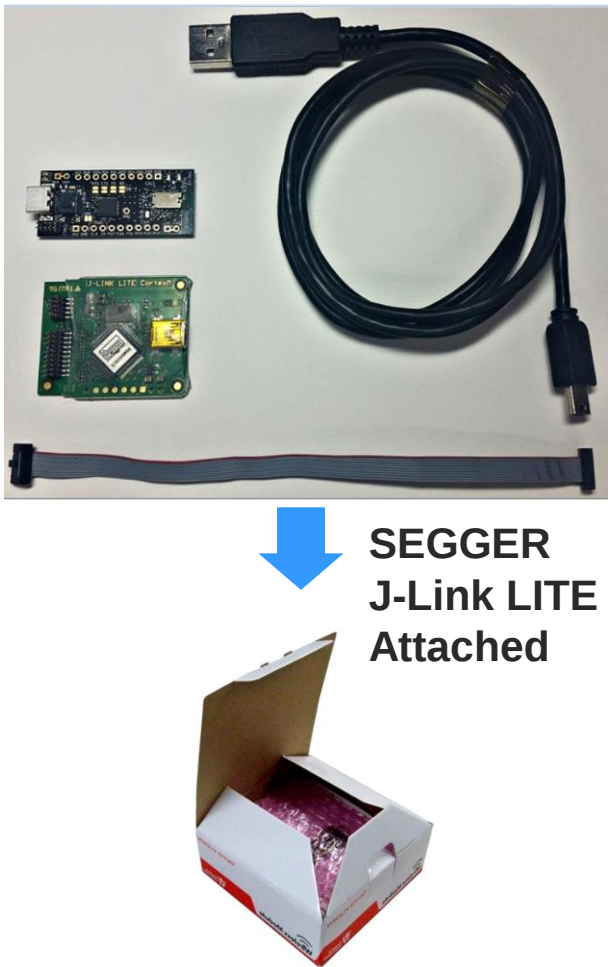
EBSHJNZXZ (EV-B)

## Evaluation board



EKSHJNZXZ (EV-K)

## Evaluation kit



# Bluetooth® low energy Module: **EYSGCNZXX**

## Features

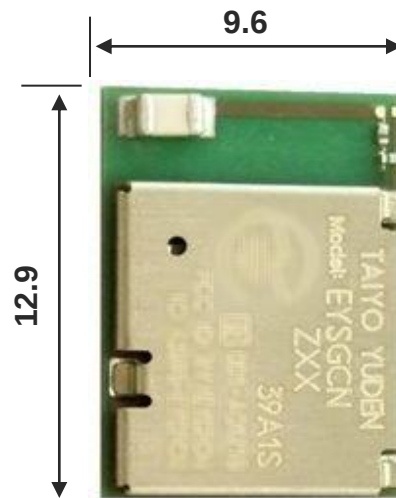
- Frequency: 2402 to 2480 MHz
- Output power: +4dBm typ.
- Single power supply: 1.8 – 3.6V
- Single Mode Bluetooth low energy Slave
- Chip: nRF51822 **Rev.3** (Nordic)
- Integrated System/Sleep Clock
- Integrated high performance ceramic chip antenna
- ARM Cortex M0** 32bit processor
- 256kB Flash** 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

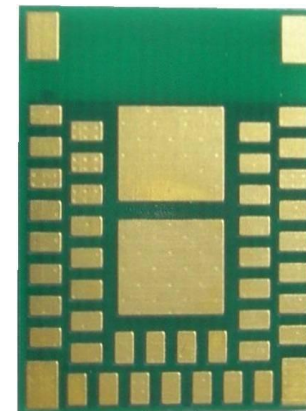
- Cycle computer
- Heart rate monitor
- Blood pressure monitor
- Blood glucose meter
- Weighing machine
- Thermometer
- Mobile accessories
- Sports and fitness sensors
- Remote controllers / Toys

## Outline

Unit: mm

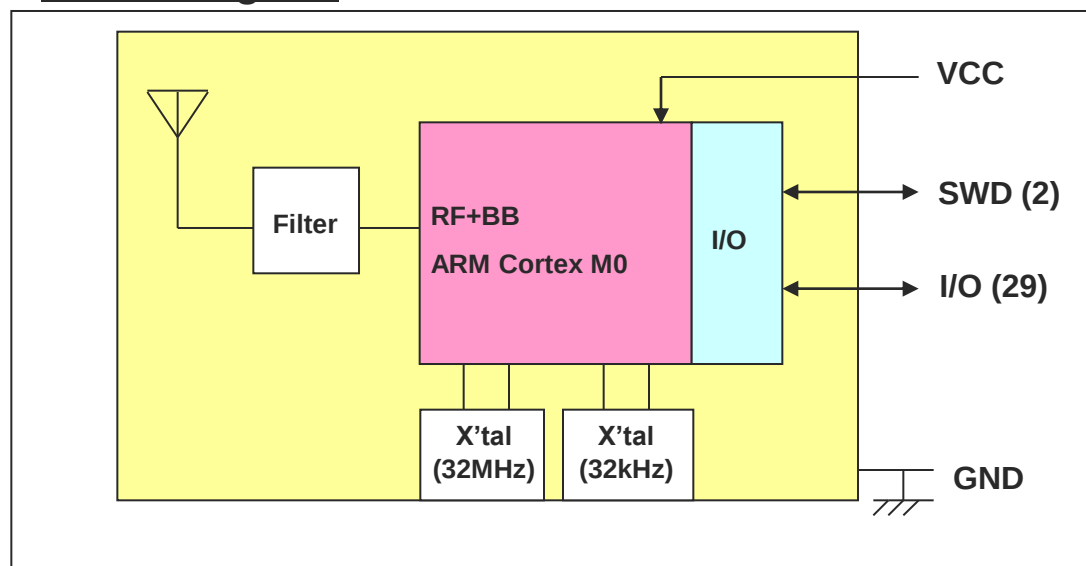


Top View



Bottom View

## Block Diagram



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# Bluetooth® low energy Module: **EYSGCNZWY**

## Features

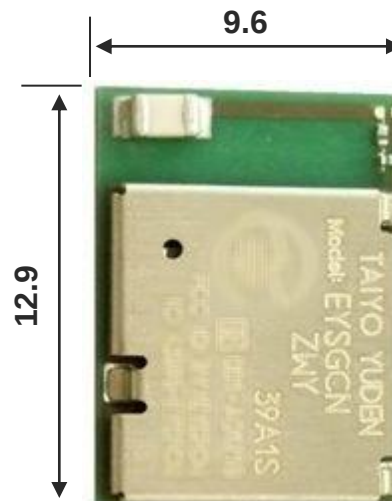
- Frequency: 2402 to 2480 MHz
- Output power: +4dBm typ.
- Single power supply: 1.8 – 3.6V
- Single Mode Bluetooth low energy **Slave / Master**
- Chip: nRF51822 **Rev.3** (Nordic)
- Integrated System/**Sleep Clock**
- Integrated high performance ceramic chip antenna
- ARM Cortex M0** 32bit processor
- 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
- 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

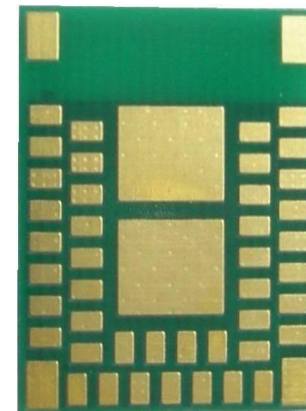
- Cycle computer
- Heart rate monitor
- Blood pressure monitor
- Blood glucose meter
- Weighing machine
- Thermometer
- Mobile accessories
- Sports and fitness sensors
- Remote controllers / Toys

## Outline

Unit: mm

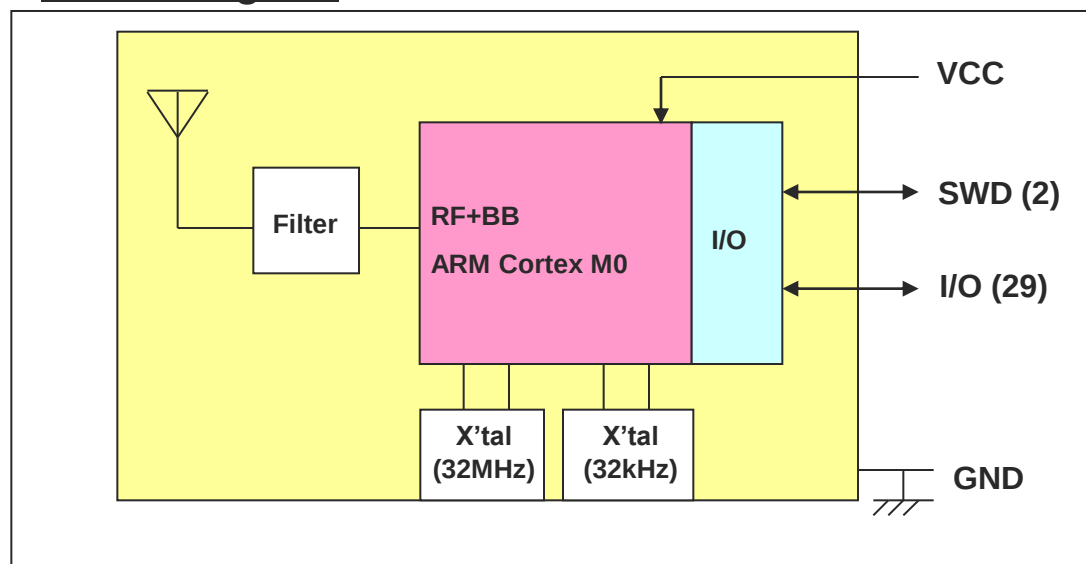


Top View



Bottom View

## Block Diagram



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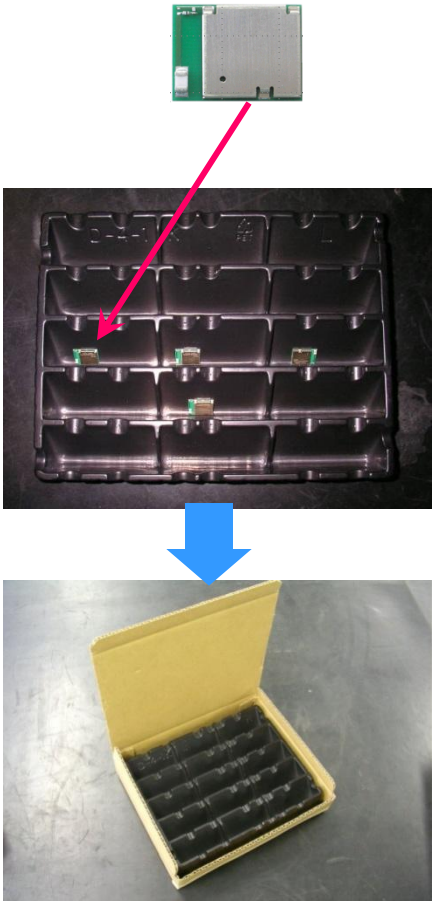
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# Bluetooth® low energy Module Sample, Evaluation Board / Kit

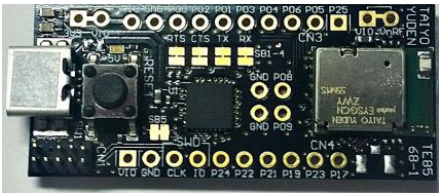
## EYSGCNZXX, EYSGCNZWY (Module)

### Module samples



## EBSGCNZWY (EV-B)

### Evaluation board



## EKSGCNZWY (EV-K)

### Evaluation kit



# Bluetooth® low energy Module **EYSGJNZXX**

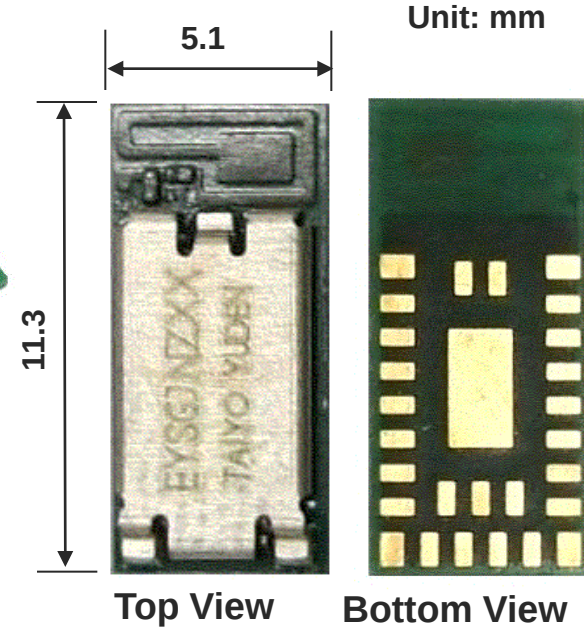
## Features

- 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 **1.3**mm 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

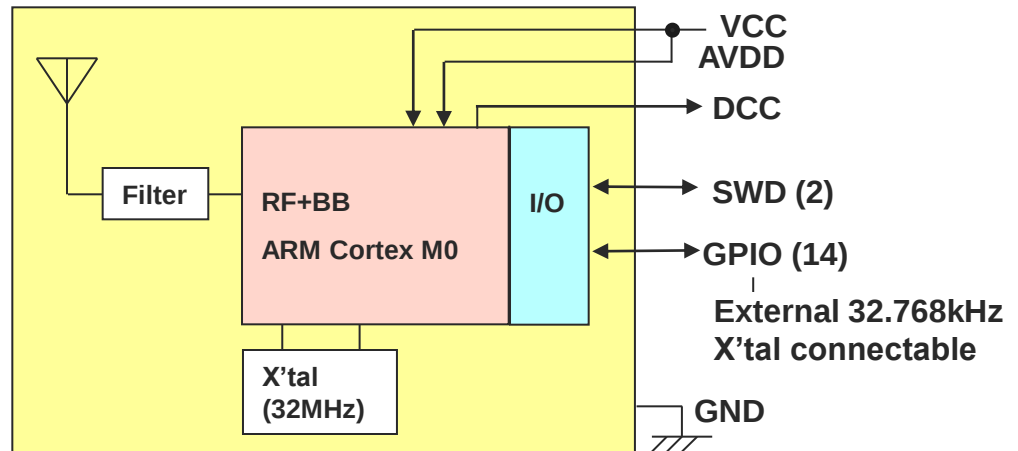
## Applications

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

## Outline



## Block Diagram



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# Bluetooth® low energy Module **EYSGJNZWY**

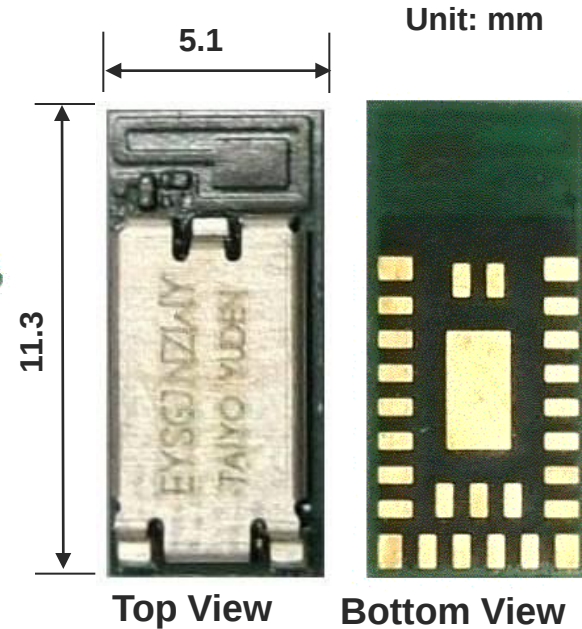
## Features

- 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 **1.3**mm 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

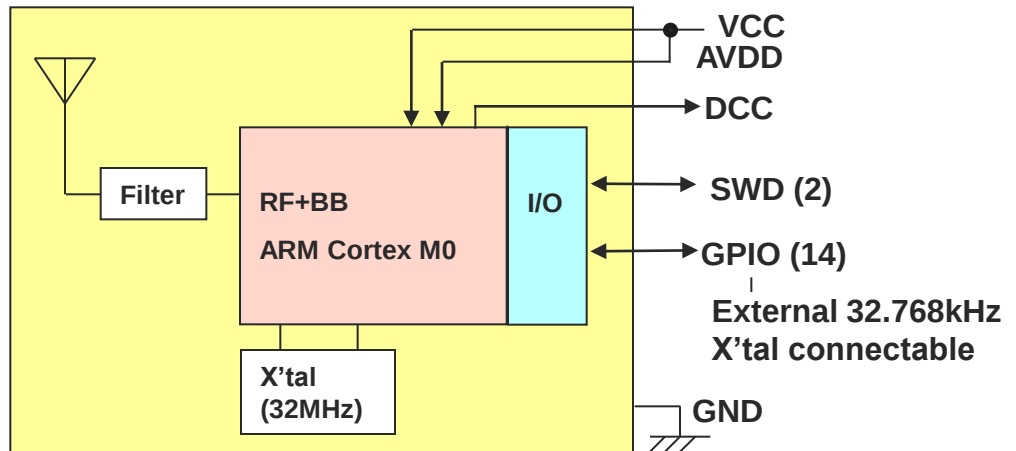
## Applications

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

## Outline



## Block Diagram



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# ANT + Bluetooth® low energy Module **EYAGJNZXX**

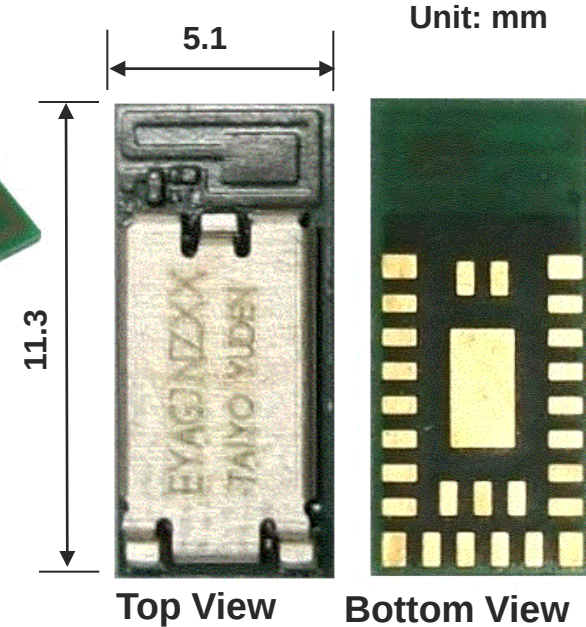
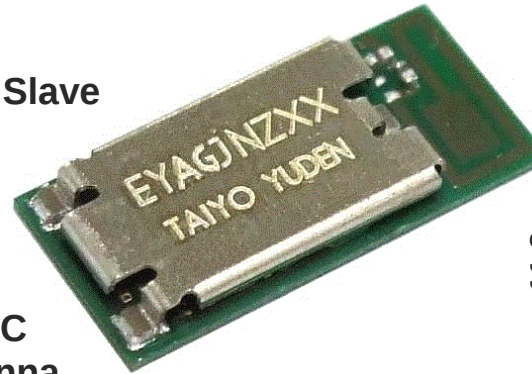
## Features

- 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 1.3**mm 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

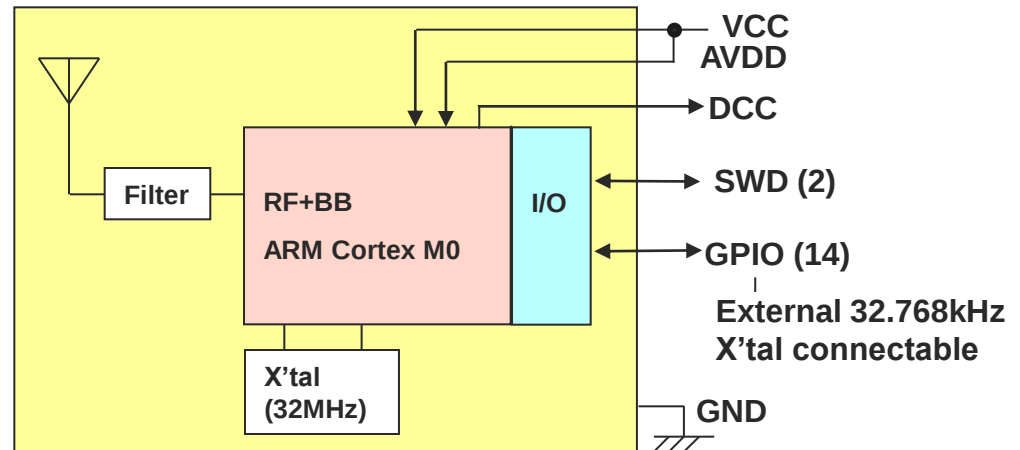
## Applications

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

## Outline



## Block Diagram



All specifications are subject to change without notice.

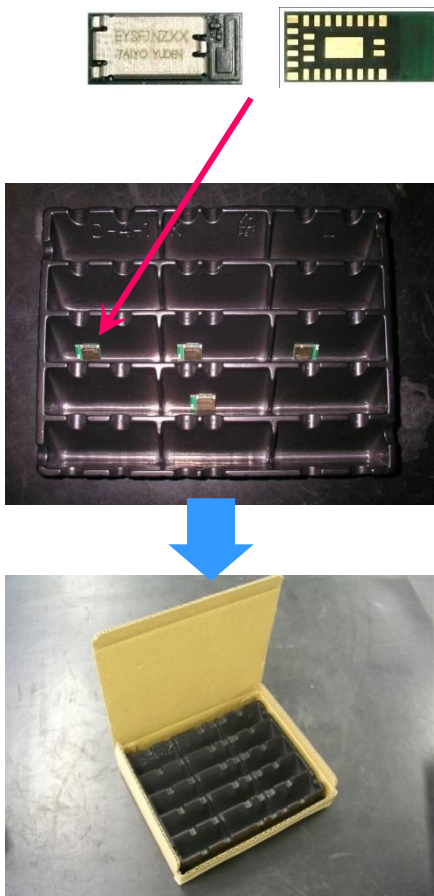
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**TAIYO YUDEN**

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

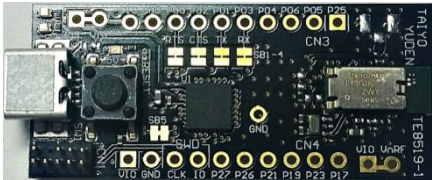
EYSGJNZXX, EYSGJNZWY,  
EYAGJNZXX (Module)

## Module samples



EBSGJNZWY, EBAGJNZXX  
(EV-B)

## Evaluation board

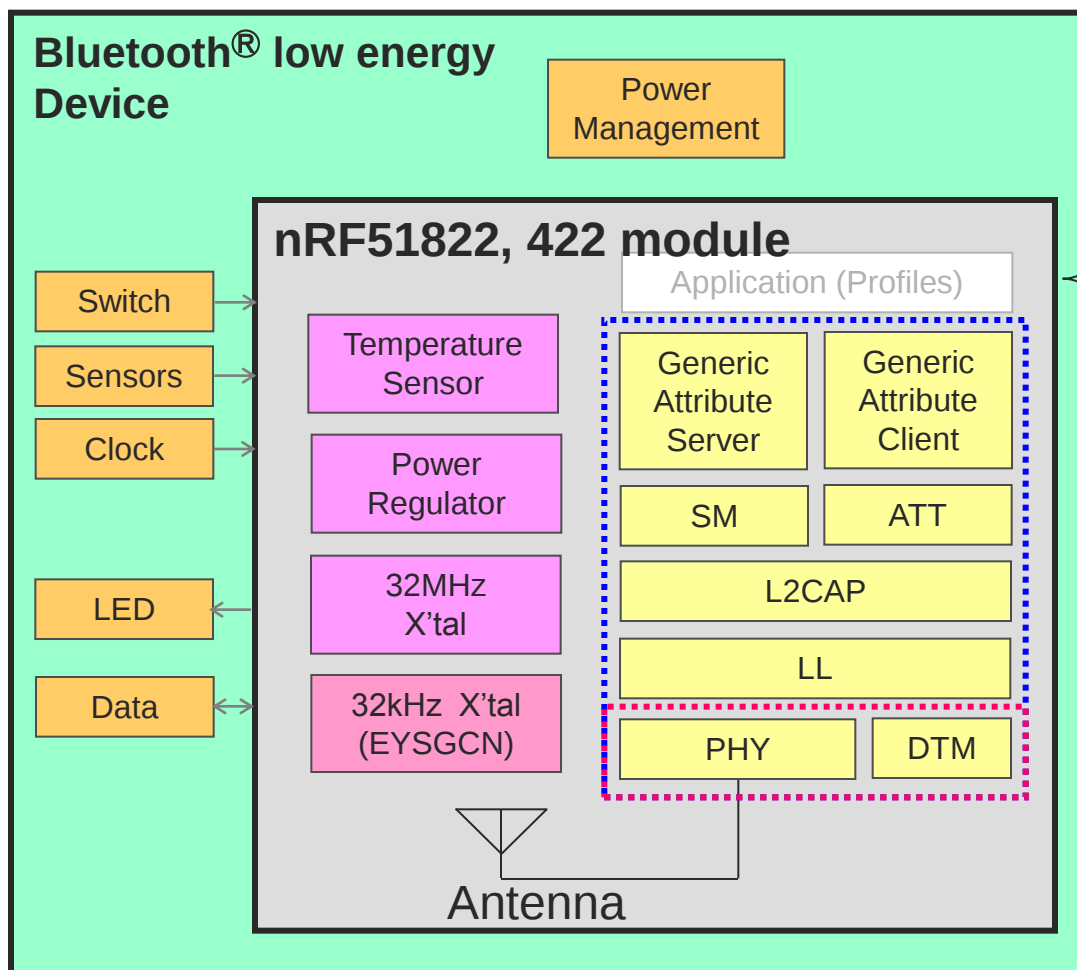


EKSGJNZWY, EKAGJNZXX  
(EV-K)

## Evaluation kit



# Application Layer image for Basic Module



- Alert Notification
  - Blood Pressure
  - Cycling Speed and Cadence
  - Glucose
  - HID Mouse
  - Heart Rate
  - Phone Alert Status
  - Proximity
  - Running Speed and Cadence
  - Time
- Nordic SDK**

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**

# Bluetooth® low energy Module: **EYSGCNAWY-1X**

## Features

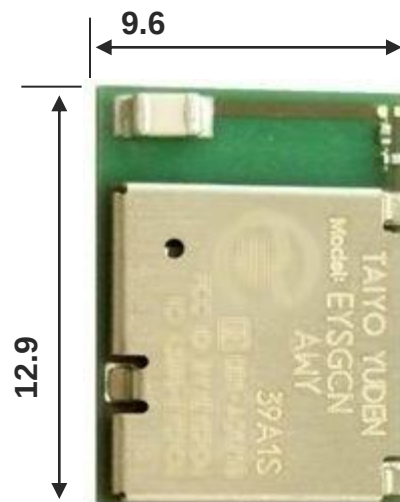
- Frequency: 2402 to 2480 MHz
- Output power: +4dBm typ.
- Single power supply: 1.8 – 3.6V
- Single Mode Bluetooth low energy **Slave / Master**
- Chip: nRF51822 (Nordic)
- Integrated System/Sleep Clock
- Integrated high performance ceramic chip antenna
- ARM Cortex M0** 32bit processor
- Application 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

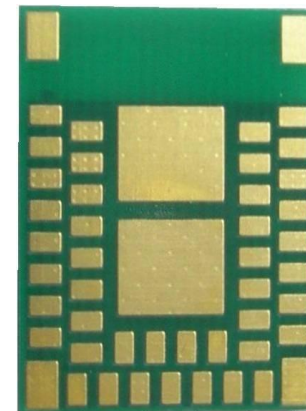
- Cycle computer
- Heart rate monitor
- Blood pressure monitor
- Blood glucose meter
- Weighing machine
- Thermometer
- Mobile accessories
- Sports and fitness sensors
- Remote controllers / Toys

## Outline

Unit: mm

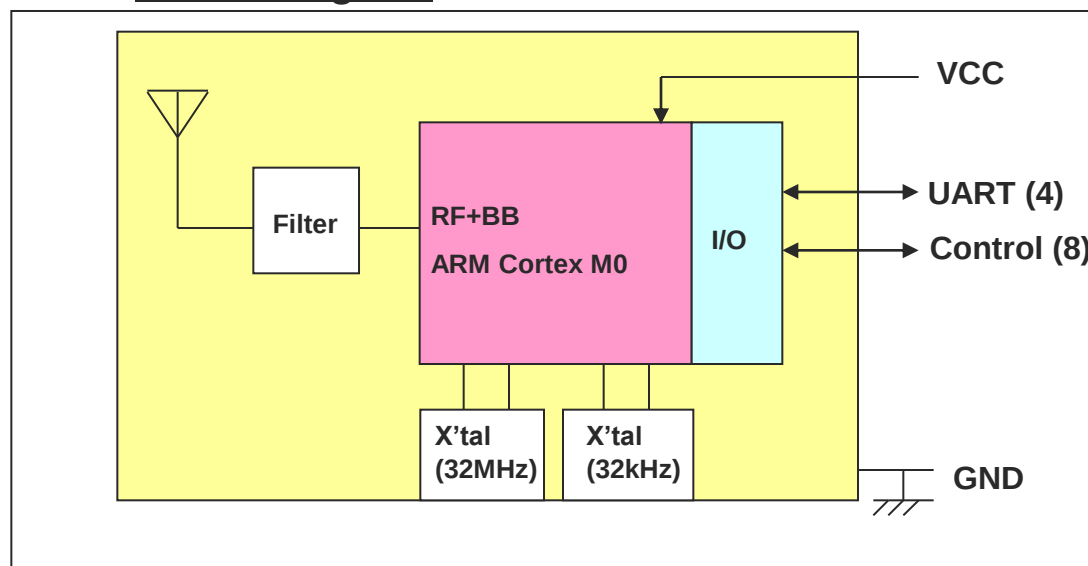


Top View



Bottom View

## Block Diagram



All specifications are subject to change without notice.

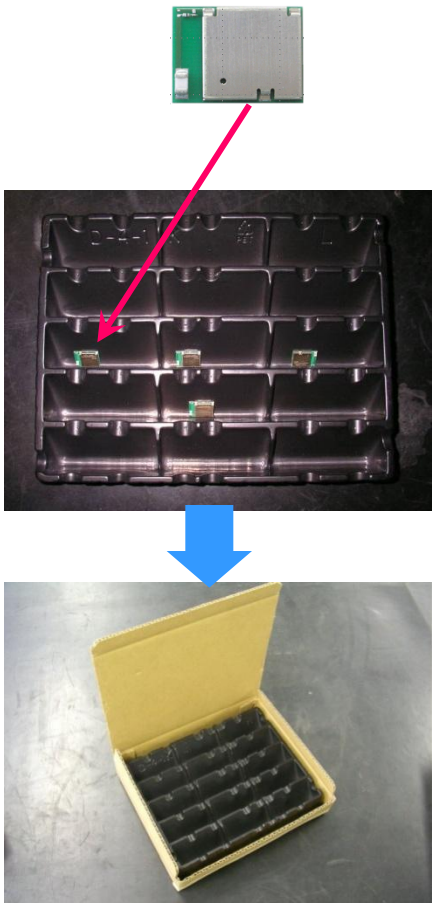
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**TAIYO YUDEN**

# Bluetooth® low energy Module Sample, Evaluation Board

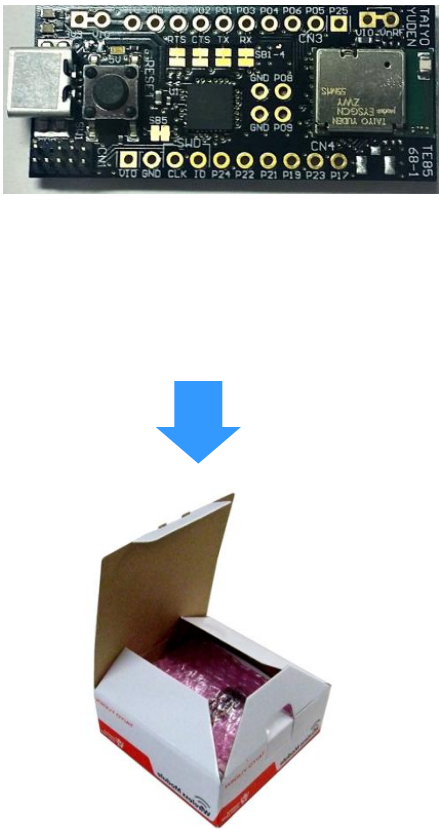
## EYSGCNAWY-1X (Module)

### ■ Module samples



## EBSGCNAWY-1X (EV-B)

### ■ Evaluation board



# Bluetooth® low energy Module **EYSGJNAWY-1X**

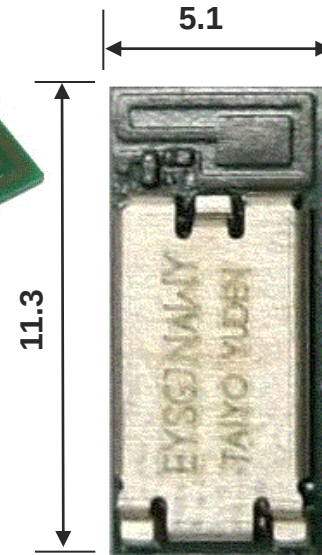
## Features

- 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 **1.3**mm 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

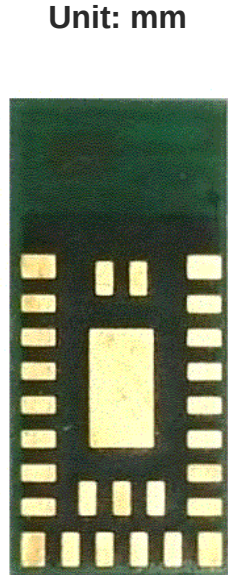
## Applications

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

## Outline



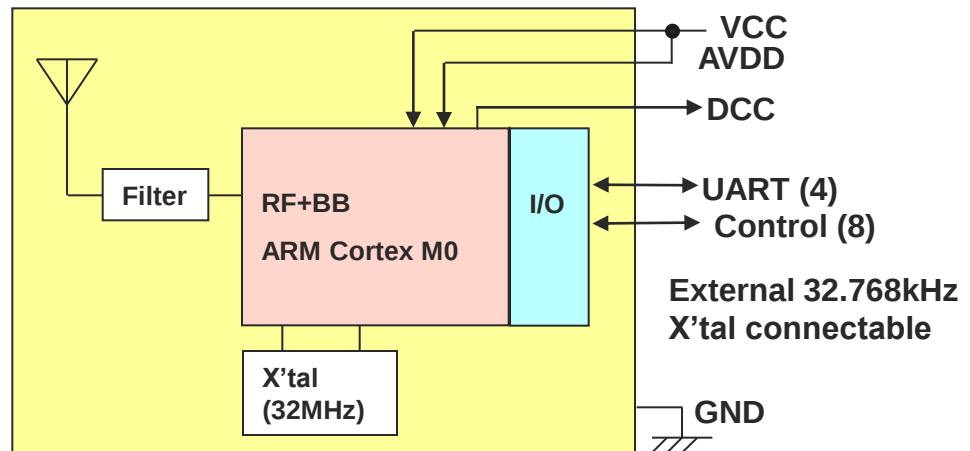
Top View



Bottom View

Unit: mm

## Block Diagram



All specifications are subject to change without notice.

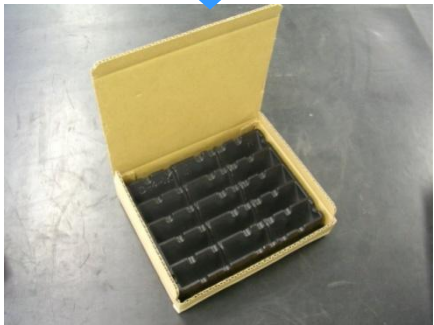
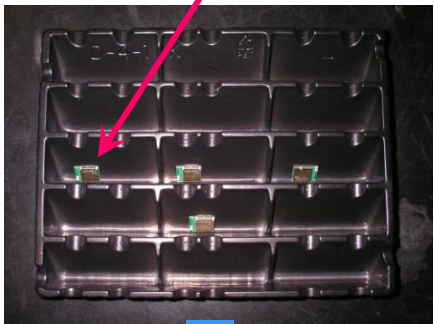
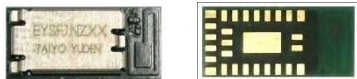
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# Bluetooth® low energy Module Sample, Evaluation Board

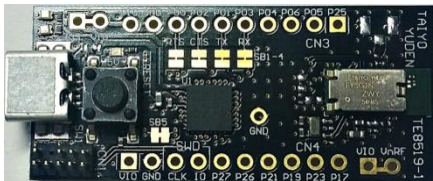
## EYSGJNAWY-1X (Module)

### ■ Module samples



## EBSGJNAWY-1X (EV-B)

### ■ Evaluation board



# Bluetooth® low energy Module: **EYSGCNAWY-WX**

## Features

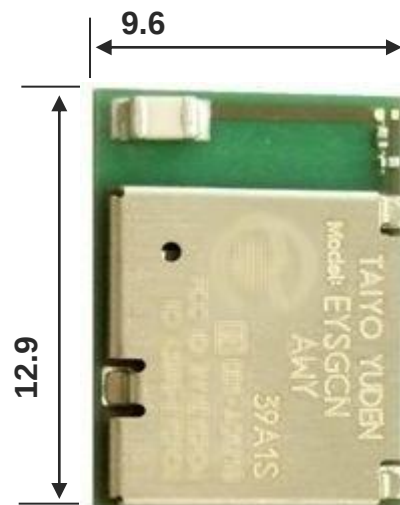
- Frequency: 2402 to 2480 MHz
- Output power: +4dBm typ.
- Single power supply: 1.8 – 3.6V
- Single Mode Bluetooth low energy **Slave / Master**
- Chip: nRF51822 (Nordic)
- Integrated System/Sleep Clock
- Integrated high performance ceramic chip antenna
- ARM Cortex M0** 32bit processor
- Application 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

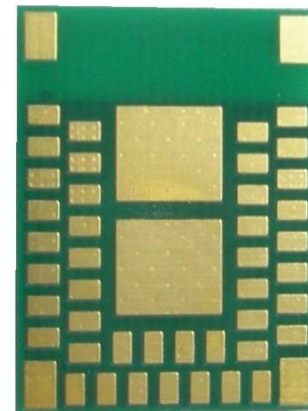
- Cycle computer
- Heart rate monitor
- Blood pressure monitor
- Blood glucose meter
- Weighing machine
- Thermometer
- Mobile accessories
- Sports and fitness sensors
- Remote controllers / Toys

## Outline

Unit: mm

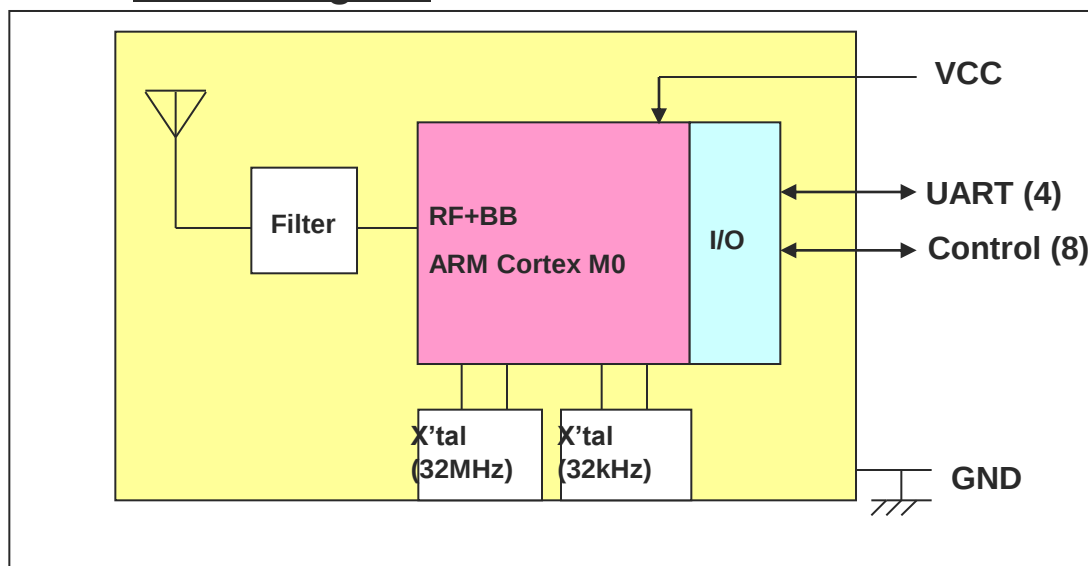


Top View



Bottom View

## Block Diagram



All specifications are subject to change without notice.

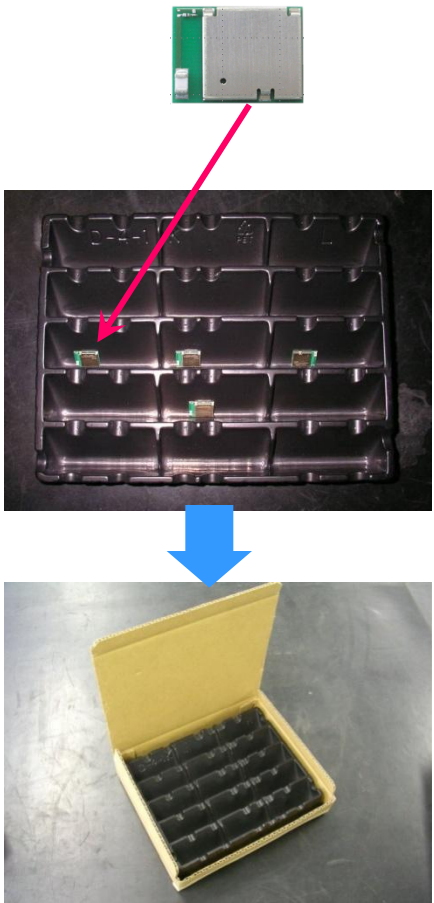
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# Bluetooth® low energy Module Sample, Evaluation Board

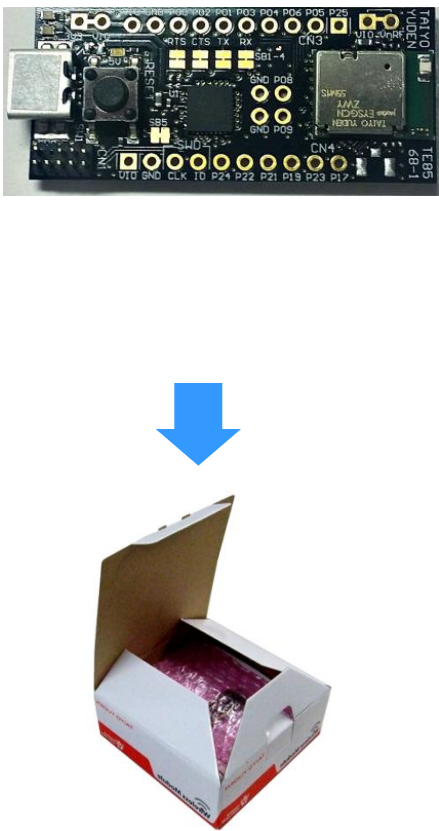
## EYSGCNAWY-WX (Module)

### ■ Module samples



## EBSGCNAWY-WX (EV-B)

### ■ Evaluation board



# Bluetooth® low energy Module **EYSGJNAWY-WX**

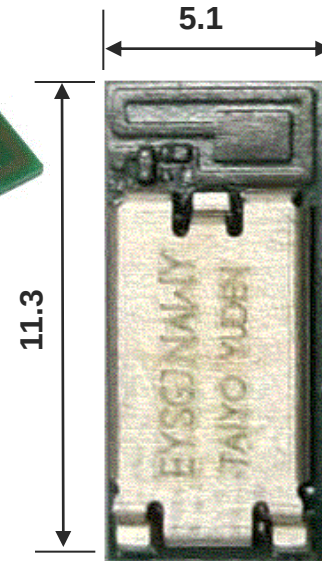
## Features

- 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 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 **1.3**mm 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

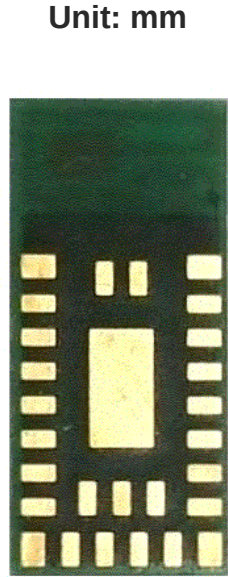
## Applications

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

## Outline



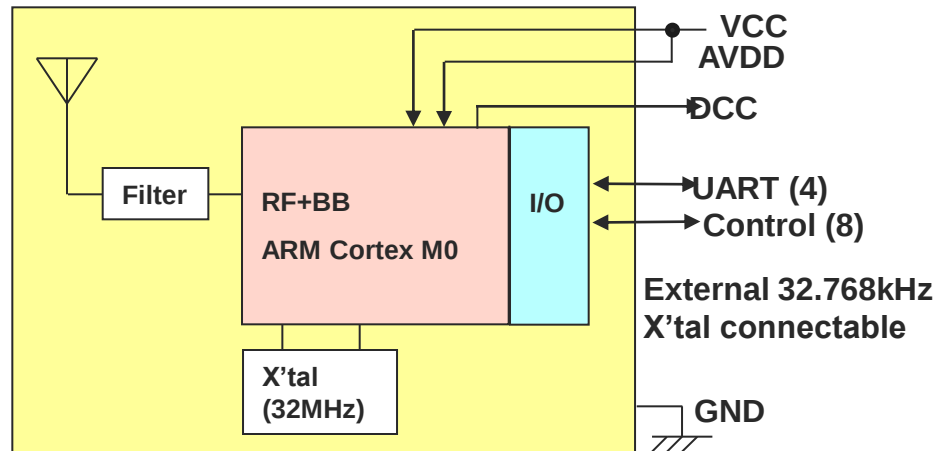
Top View



Bottom View

Unit: mm

## Block Diagram



All specifications are subject to change without notice.

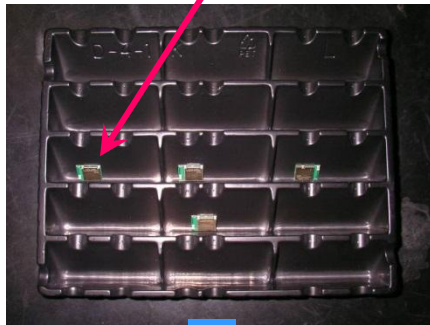
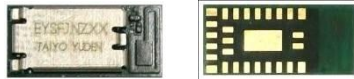
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# Bluetooth® low energy Module Sample, Evaluation Board

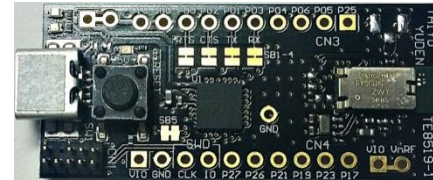
## EYSGJNAWY-WX (Module)

### ■ Module samples



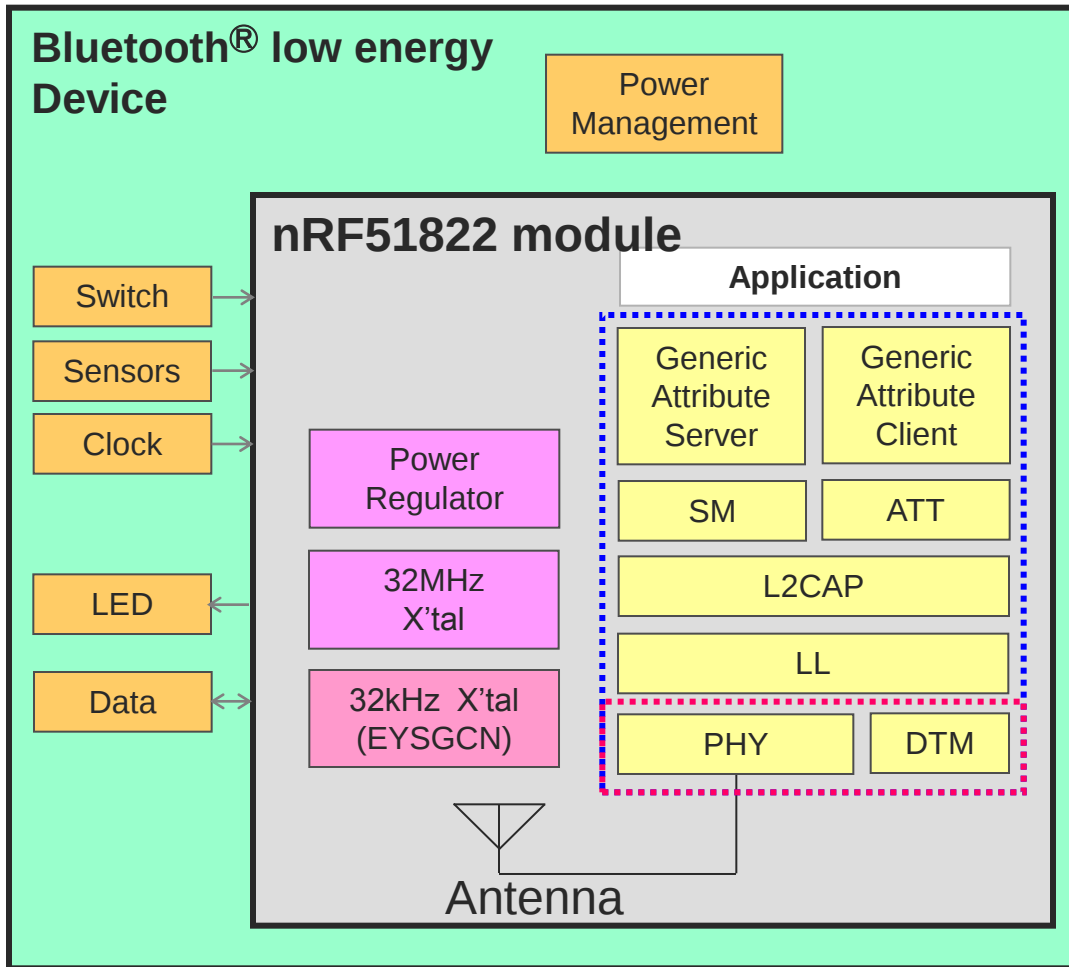
## EBSGJNAWY-WX (EV-B)

### ■ Evaluation board



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# Application Layer image for **Application Embedded Module**



**EYSGCN, EYSGJN**  
**Application Embedded Module**

## Connection option

**-1X** module for  
**Module - Module only**

**-WX** module for  
**Module – Smart phone**

Softdevice



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

# Bluetooth® low energy standard module

| Type                                                                                         | Part No.     | Size<br>(LxWxH)    | Specifi-<br>cation                                     | ANT™<br>Support | I/F                | RAM  | Certifi-<br>cation          | Tempera-<br>ture |                  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------|--------------|--------------------|--------------------------------------------------------|-----------------|--------------------|------|-----------------------------|------------------|------------------|--|--|--|--|--|
| High<br>Performance<br>Basic                                                                 | EYSHCNZXZ    | 9.6x12.9<br>X2.0mm | Bluetooth<br>V4.2<br>BLE<br>Single<br>Slave/<br>Master | ✓               | UART<br>SPI<br>I2C | 64kB | Japan<br>FCC<br>IC<br>(CE)※ | -40~+85<br>deg-C |                  |  |  |  |  |  |
|                                                                                              | EYSHJNZXZ    | 5.1x11.3<br>X1.3mm |                                                        | ✓               |                    | 64kB |                             |                  |                  |  |  |  |  |  |
| Basic<br><br>(Software<br>Support :<br>Nordic)                                               | EYSGCNZXX    | 9.6x12.9<br>x2.0mm |                                                        | ✓               |                    | 32kB |                             |                  |                  |  |  |  |  |  |
|                                                                                              | EYSGCNZWY    |                    |                                                        |                 |                    |      |                             | 16kB             |                  |  |  |  |  |  |
|                                                                                              | EYSGJNZXX    | 32kB               |                                                        |                 |                    |      |                             |                  |                  |  |  |  |  |  |
|                                                                                              | EYSGJNZWY    | 16kB               |                                                        |                 |                    |      |                             |                  |                  |  |  |  |  |  |
|                                                                                              | EYAGJNZXX    | 5.1x11.3<br>x1.3mm |                                                        |                 | 32kB               |      |                             |                  |                  |  |  |  |  |  |
| Application<br>Embedded<br>Module –<br>Module<br>(Software<br>Support :<br>Taiyo Yuden)      | EYSGCNAWY-1X | 9.6x12.9<br>x2.0mm |                                                        |                 | UART               | N/A  |                             |                  | -25~+75<br>deg-C |  |  |  |  |  |
|                                                                                              | EYSGJNAWY-1X | 5.1x11.3<br>x1.3mm |                                                        |                 |                    |      |                             |                  |                  |  |  |  |  |  |
| Application<br>Embedded<br>Module –<br>Smart phone<br>(Software<br>Support :<br>Taiyo Yuden) | EYSGCNAWY-WX | 9.6x12.9<br>x2.0mm |                                                        |                 |                    |      |                             |                  |                  |  |  |  |  |  |
|                                                                                              | EYSGJNAWY-WX | 5.1x11.3<br>x1.3mm |                                                        |                 |                    |      |                             |                  |                  |  |  |  |  |  |

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