▨ Notice for TAIYO YUDEN products

Please read this notice before using the TAIYO YUDEN products.

⚠ REMINDERS

■ **Product Information in this Catalog**
Product information in this catalog is as of January 2021. All of the contents specified herein and production status of the products listed in this catalog are subject to change without notice due to technical improvement of our products, etc. Therefore, please check for the latest information carefully before practical application or use of our products.

Please note that TAIYO YUDEN shall not be in any way responsible for any damages and defects in products or equipment incorporating our products, which are caused under the conditions other than those specified in this catalog or individual product specification sheets.

■ **Approval of Product Specifications**
Please contact TAIYO YUDEN for further details of product specifications as the individual product specification sheets are available. When using our products, please be sure to approve our product specifications or make a written agreement on the product specification with TAIYO YUDEN in advance.

■ **Pre-Evaluation in the Actual Equipment and Conditions**
Please conduct validation and verification of our products in actual conditions of mounting and operating environment before using our products.

■ **Limited Application**
1. **Equipment Intended for Use**
The products listed in this catalog are intended for general-purpose and standard use in general electronic equipment (e.g., AV equipment, OA equipment, home electric appliances, office equipment, information and communication equipment including, without limitation, mobile phone, and PC) and other equipment specified in this catalog or the individual product specification sheets.

TAIYO YUDEN has the line-up of the products intended for use in automotive electronic equipment, telecommunications infrastructure and industrial equipment, or medical devices classified as GHTF Classes A to C (Japan Classes I to III). Therefore, when using our products for these equipment, please check available applications specified in this catalog or the individual product specification sheets and use the corresponding products.

2. **Equipment Requiring Inquiry**
Please be sure to contact TAIYO YUDEN for further information before using the products listed in this catalog for the following equipment (excluding intended equipment as specified in this catalog or the individual product specification sheets) which may cause loss of human life, bodily injury, serious property damage and/or serious public impact due to a failure or defect of the products and/or malfunction attributed thereto.
 (1) Transportation equipment (automotive powertrain control system, train control system, and ship control system, etc.)
 (2) Traffic signal equipment
 (3) Disaster prevention equipment, crime prevention equipment
 (4) Medical devices classified as GHTF Class C (Japan Class III)
 (5) Highly public information network equipment, data-processing equipment (telephone exchange, and base station, etc.)
 (6) Any other equipment requiring high levels of quality and/or reliability equal to the equipment listed above

3. **Equipment Prohibited for Use**
Please do not incorporate our products into the following equipment requiring extremely high levels of safety and/or reliability.
 (1) Aerospace equipment (artificial satellite, rocket, etc.)
 (2) Aviation equipment [1]
 (3) Medical devices classified as GHTF Class D (Japan Class IV), implantable medical devices [2]

 (4) Power generation control equipment (nuclear power, hydroelectric power, thermal power plant control system, etc.)
 (5) Undersea equipment (submarine repeating equipment, underwater work equipment, etc.)
 (6) Military equipment
 (7) Any other equipment requiring extremely high levels of safety and/or reliability equal to the equipment listed above

*Notes:
 1. There is a possibility that our products can be used only for aviation equipment that does not directly affect the safe operation of aircraft (e.g., in-flight entertainment, cabin light, electric seat, cooking equipment) if such use meets requirements specified separately by TAIYO YUDEN. Please be sure to contact TAIYO YUDEN for further information before using our products for such aviation equipment.
 2. Implantable medical devices contain not only internal unit which is implanted in a body, but also external unit which is connected to the internal unit.

4. **Limitation of Liability**
Please note that unless you obtain prior written consent of TAIYO YUDEN, TAIYO YUDEN shall not be in any way responsible for any damages incurred by you or third parties arising from use of the products listed in this catalog for any equipment that is not intended for use by TAIYO YUDEN, or any equipment requiring inquiry to TAIYO YUDEN or prohibited for use by TAIYO YUDEN as described above.

■ **Safety Design**
When using our products for high safety and/or reliability-required equipment or circuits, please fully perform safety and/or reliability evaluation. In addition, please install (i) systems equipped with a protection circuit and a protection device and/or (ii) systems equipped with a redundant circuit or other system to prevent an unsafe status in the event of a single fault for a failsafe design to ensure safety.

■ **Intellectual Property Rights**
Information contained in this catalog is intended to convey examples of typical performances and/or applications of our products and is not intended to make any warranty with respect to the intellectual property rights or any other related rights of TAIYO YUDEN or any third parties nor grant any license under such rights.

■ **Limited Warranty**
Please note that the scope of warranty for our products is limited to the delivered our products themselves and TAIYO YUDEN shall not be in any way responsible for any damages resulting from a failure or defect in our products. Notwithstanding the foregoing, if there is a written agreement (e.g., supply and purchase agreement, quality assurance agreement) signed by TAIYO YUDEN and your company, TAIYO YUDEN will warrant our products in accordance with such agreement.

■ **TAIYO YUDEN's Official Sales Channel**
The contents of this catalog are applicable to our products which are purchased from our sales offices or authorized distributors (hereinafter "TAIYO YUDEN's official sales channel"). Please note that the contents of this catalog are not applicable to our products purchased from any seller other than TAIYO YUDEN's official sales channel.

■ **Caution for Export**
Some of our products listed in this catalog may require specific procedures for export according to "U.S. Export Administration Regulations", "Foreign Exchange and Foreign Trade Control Law" of Japan, and other applicable regulations. Should you have any questions on this matter, please contact our sales staff.

▶ This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our product specification sheets. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our website (http://www.ty-top.com/) .

WIRELESS MODULE

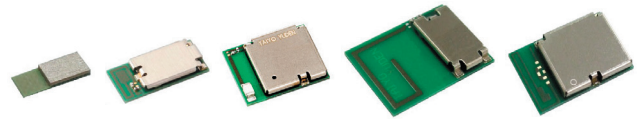Our recommended Line Up of *Bluetooth*® and WLAN Modules

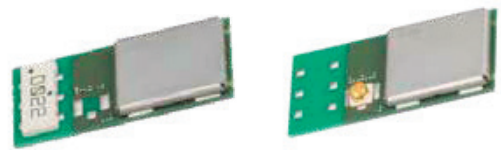■For Smartphone Peripheral & IoT Solution

Electricity/Light

Security/Access

Bluetooth® low energy Module or *Bluetooth*® Dual Mode Module

■For Industrial Market

Handy Terminal / Mobile Printer

123-456-789

Original Antenna or RF Connector
WLAN+BT Module

■For IoT Solution & Industrial

White Goods

Heating and Cooling

CPU Embedded
WLAN Module

CPU & TAIYO YUDEN Software
Embedded WLAN Module

Alarm/Sensing

2.4GHz & 5GHz Supported
WLAN + BT Module

Sub−1GHz Module

FUNCTIONAL MODULES

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■ *Bluetooth* ® low energy & ANT Module、Bluetooth® Dual Mode Module

Part number	Function											I/F							Module type		Type approval				Remark
	BLE	BT Classic	ANT	NFC	802.11a	802.11b	802.11g	802.11n	802.11ac	802.15.4 (Thread)	802.15.4g	UART	USB	PCM	SPI	I2C	I2S	SDIO	SMD	Antenna	Japan	FCC	ISED	CE	
EYSKBNUWB-WX	O											O	O		O				O	O	O	O	O	O*	TY's APP、32k X'tal、BT5
EYSKJNAWB-WX	O											O							O	O	O	O	O	O*	TY's APP、BT5
EYSKBNZWB	O		O△	O						O		O	O		O	O	O		O	O	O	O	O	O*	32k X'tal、1M Flash、256K RAM、BT5（Full）
EYSKDNZWB	O		O△	O						O		O	O		O	O	O		O	O	O	O	O	O*	High Performance Antenna、1M Flash、256K RAM、BT5(Full)
EYSKJNZWB	O		O△	O						O		O			O	O	O		O	O	O	O	O	O*	1M Flash、256K RAM、BT5(Full)
EYSPBNZUA	O		O△	O						O		O	O		O	O	O		O	O	O	O	O	O*	32k X'tal、512K Flash、128K RAM、BT5.2、Wide Temp.
EYSPDNZUA	O		O△	O						O		O			O	O	O		O	O	O	O	O	O*	High Performance Antenna、512K Flash、128K RAM、BT5.2、Wide Temp.
EYSPJNZUA	O		O△	O						O		O			O	O	O		O	O	O	O	O	O*	512K Flash、128K RAM、BT5.2、Wide Temp.
EYSHCNZWZ	O		O*									O			O	O			O	O	O	O	O	O**	32k X'tal、512K Flash、64K RAM、BT5
EYSHJNZWZ	O		O*	O								O			O	O			O	O	O	O	O	O**	512K Flash、64K RAM、BT5
EYSHSNZWZ	O		O*									O			O	O			O	O	O	O	O	O**	512K Flash、64K RAM、BT5
EYSRCNZUY	O		O△							O		O	O		O	O	O		O	O	O	O	O	O*	32k X'tal、256K Flash、32K RAM、BT5.2、Wide Temp.
EYSRSNZUY	O		O△							O		O	O		O	O	O		O	O	O	O	O	O*	256K Flash、32K RAM、BT5.2、Wide Temp.
EYSNCNZWW	O		O▲							O		O			O	O			O	O	O	O	O	O*	32k X'tal、192K Flash、24K RAM、BT5.2
EYSNSNZWW	O		O▲							O		O			O	O			O	O	O	O	O	O*	192K Flash、24K RAM、BT5.2
EYSLCNZWW	O		O▲									O			O	O			O	O	O	O	O	O*	32k X'tal、192K Flash、24K RAM、BT5
EYSLSNZWW	O		O▲									O			O	O			O	O	O	O	O	O*	192K Flash、24K RAM、BT5
EYSSSNZWW	O		O◇									O			O	O			O	O	O	O	O	O*	192K Flash、24K RAM、BT5.2
EYSGCNAWY-VX	O											O							O	O	O	O	O	O*	TY's APP、32k X'tal
EYSGJNAWY-VX	O											O							O	O	O	O	O	O*	TY's APP
EYSGCNZWY	O											O			O	O			O	O	O	O	O	O*	32k X'tal、256K Flash、32K RAM
EYSGCNZXX	O											O			O	O			O	O	O	O	O	O*	32k X'tal、256K Flash、16K RAM
EYSGJNZWY	O											O			O	O			O	O	O	O	O	O*	256K Flash、32K RAM
EYSGJNZXX	O											O			O	O			O	O	O	O	O	O*	256K Flash、16K RAM
EYAGJNZXX	O		O									O			O	O			O	O	O	O	O	O*	256K Flash、32K RAM
EYSGCCAXW	O	O										O							O	O	O	O	O	O*	HCI Firmware
EYSGCCSXW	O	O											O						O	O	O	O	O	O*	HCI Firmware

* Softdevice S332
△ Softdevice S340
▲ Softdevice S313
◇ Softdevice S312

* ETSI EN 300 328 v2.2.2 Conducted Test Report Available
** Complies with standards required by RED (2014/53/EU)

■ Sub-1GHz Module

Part number	Function											I/F							Module type		Type approval				Remark
	BLE	BT Classic	ANT	NFC	802.11a	802.11b	802.11g	802.11n	802.11ac	802.15.4 (Thread)	802.15.4g	UART	USB	PCM	SPI	I2C	I2S	SDIO	SMD	Antenna	Japan	FCC	ISED	CE	
SYSFCSAXX-XX											O	O							O	O	O				32k X'tal、31Multihop

■ CPU Embedded WLAN Module

Part number	Function											I/F							Module type		Type approval				Remark
	BLE	BT Classic	ANT	NFC	802.11a	802.11b	802.11g	802.11n	802.11ac	802.15.4 (Thread)	802.15.4g	UART	USB	PCM	SPI	I2C	I2S	SDIO	SMD	Antenna	Japan	FCC	ISED	CE	
WYSACVLAY-WX						O	O	O				O							O	O	O	O	O	O*	TY's APP
WYSACVLAY-AW						O	O	O				O							O	O	O	O	O	O*	AWS Support
WYSACVLAY-XZ						O	O	O				O			O				O	O	O	O	O	O*	w/Cortex M4、4M-Flash ROM

* ETSI EN 300 328 v2.2.2 Conducted Test Report Available

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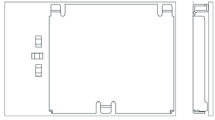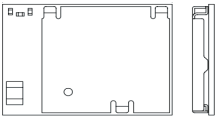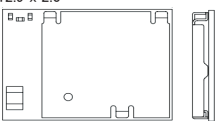
■WLAN+BT Module
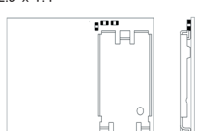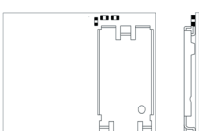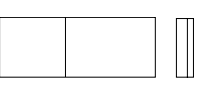
Part number	Function											I/F							Module type		Type approval				Remark
	BLE	BT Classic	ANT	NFC	802.11a	802.11b	802.11g	802.11n	802.11ac	802.15.4 (Thread)	802.15.4g	UART	USB	PCM	SPI	I2C	I2S	SDIO	SMD	Antenna	Japan	FCC	ISED	CE	
WYSAGVDXG	O	O		O	O	O	O	O	O					O					O	O	O	O	O	O	O∗	Dual Band Antenna(Chip)
WYSEGVDXG	O	O		O	O	O	O	O	O					O					O	O	△∗∗	O	O	O		RF Connector（Limited antenna）
WYSBHVGXG	O	O		O	O	O	O	O	O					O					O	O						

∗ ETSI EN 300 328 & ETSI EN 301 893 v2.2.2 Conducted Test Report Available
∗∗ Embedded RF Connector for Limited Antenna

FUNCTIONAL MODULES

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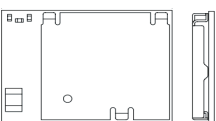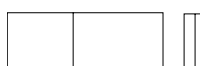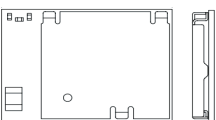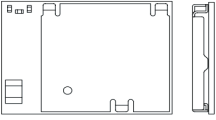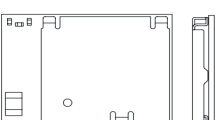
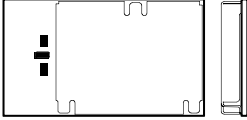■*Bluetooth*® low energy & ANT Module、Bluetooth® Dual Mode Module

Part number	Function	Module type	I/F	Feature	Outline [mm]（Height : Maximum）
EYSKBNUWB−WX（nRF52840）	*Bluetooth*® low energy v5.0	BLE Central and Peripheral SMD type TAIYO YUDEN Software Embedded	UART USB SPI	w/CPU （Cortex M4F） 32kHz Crystal Antenna FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	10.0 x 15.4 x 2.0
EYSKJNAWB−WX（nRF52840）	*Bluetooth*® low energy v5.0	BLE Central and Peripheral SMD type TAIYO YUDEN Software Embedded	UART SPI	w/CPU （Cortex M4F） Antenna FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	5.1 x 11.3 x 1.3
EYSKBNZWB（nRF52840）	*Bluetooth*® low energy v5.0（Full）& 802.15.4 (Thread) & NFC−A Type−2	BLE Central and Peripheral SMD type	UART USB I2C SPI I2S PDM 46 GPIO	w/CPU （Cortex M4F） 32kHz Crystal Antenna 1MB Flash 256KB RAM FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	10.0 x 15.4 x 2.0
EYSKDNZWB（nRF52840）	*Bluetooth*® low energy v5.0（Full）& 802.15.4 (Thread) & NFC−A Type−2	BLE Central and Peripheral SMD type High Performance Antenna Type	UART USB I2C SPI I2S PDM 19 GPIO	w/CPU （Cortex M4F） Antenna 1MB Flash 256KB RAM FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	9.6 x 12.9 x 1.4
EYSKJNZWB（nRF52840）	*Bluetooth*® low energy v5.0（Full）& 802.15.4 (Thread) & NFC−A Type−2	BLE Central and Peripheral SMD type	UART I2C SPI I2S PDM 15 GPIO	w/CPU （Cortex M4F） Antenna 1MB Flash 256KB RAM FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	5.1 x 11.3 x 1.3
EYSPBNZUA（nRF52833）	*Bluetooth*® low energy v5.2 & 802.15.4 (Thread) & NFC−A Type−2	BLE Central and Peripheral SMD type	UART USB I2C SPI I2S PDM 40 GPIO	w/CPU （Cortex M4F） Antenna 512KB Flash 128KB RAM FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available Operation temperature:−40℃〜105℃	10.0 x 15.4 x 2.0
EYSPDNZUA（nRF52833）	*Bluetooth*® low energy v5.2 & 802.15.4 (Thread) & NFC−A Type−2	BLE Central and Peripheral SMD type High Performance Antenna Type	UART USB I2C SPI I2S PDM 19 GPIO	w/CPU （Cortex M4F） Antenna 512KB Flash 128KB RAM FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available Operation temperature:−40℃〜105℃	9.6 x 12.9 x 1.4
EYSPJNZUA（nRF52833）	*Bluetooth*® low energy v5.2 & 802.15.4 (Thread) & NFC−A Type−2	BLE Central and Peripheral SMD type	UART I2C SPI I2S PDM 15 GPIO	w/CPU （Cortex M4F） Antenna 512KB Flash 128KB RAM FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available Operation temperature:−40℃〜105℃	5.1 x 11.3 x 1.3
EYSHCNZWZ（nRF52832）	*Bluetooth*® low energy v5.0 & NFC−A Type−2	BLE Central and Peripheral SMD type	UART I2C SPI I2S PDM 30 GPIO	w/CPU （Cortex M4F） Antenna 512KB Flash 64KB RAM 32kHz Crystal FCC/ISED/Japan certified Complies with standards required by RED (2014/53/EU) ETSI EN 300 328 v2.2.2 Conducted Test Report Available	9.6 x 12.9 x 2.0
EYSHJNZWZ（nRF52832）	*Bluetooth*® low energy v5.0 & NFC−A Type−2	BLE Central and Peripheral SMD type	UART I2C SPI I2S PDM 15 GPIO	w/CPU （Cortex M4F） Antenna 512KB Flash 64KB RAM FCC/ISED/Japan certified Complies with standards required by RED (2014/53/EU) ETSI EN 300 328 v2.2.2 Conducted Test Report Available	5.1 x 11.3 x 1.3
EYSHSNZWZ（nRF52832）	*Bluetooth*® low energy v5.0 & NFC−A Type−2	BLE Central and Peripheral SMD type	UART I2C SPI I2S PDM 15 GPIO	w/CPU （Cortex M4F） Antenna 512KB Flash 64KB RAM FCC/ISED/Japan certified Complies with standards required by RED (2014/53/EU) ETSI EN 300 328 v2.2.2 Conducted Test Report Available	3.25 x 8.55 x 0.85

FUNCTIONAL MODULES

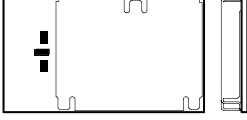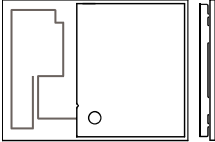| Part number	Function	Module type	I/F	Feature	Outline [mm] (Height : Maximum)
EYSRCNZUY (nRF52820)	*Bluetooth*® low energy v5.2 & 802.15.4 (Thread)	BLE Central and Peripheral SMD type	UART USB I2C SPI I2S PDM 16 GPIO	w/CPU （Cortex M4） Antenna 256KB Flash 32KB RAM FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available Operation temperature:−40℃〜105℃	9.6 x 12.9 x 2.0
EYSRSNZUY (nRF52820)	*Bluetooth*® low energy v5.2 & 802.15.4 (Thread)	BLE Central and Peripheral SMD type	UART USB I2C SPI I2S PDM 12 GPIO	w/CPU （Cortex M4） Antenna 256KB Flash 32KB RAM FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available Operation temperature:−40℃〜105℃	3.25 x 8.55 x 1.00
EYSNCNZWW (nRF52811)	*Bluetooth*® low energy v5.2 & 802.15.4 (Thread)	BLE Central and Peripheral SMD type	UART I2C SPI PDM 30 GPIO	w/CPU （Cortex M4） Antenna 192KB Flash 24KB RAM 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	9.6 x 12.9 x 2.0
EYSNSNZWW (nRF52811)	*Bluetooth*® low energy v5.2 & 802.15.4 (Thread)	BLE Central and Peripheral SMD type	UART I2C SPI PDM 15 GPIO	w/CPU （Cortex M4） Antenna 192KB Flash 24KB RAM FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	3.25 x 8.55 x 1.00
EYSLCNZWW (nRF52810)	*Bluetooth*® low energy v5.0 （2Mbps Data Rate suppurt）	BLE Central and Peripheral SMD type	UART I2C SPI PDM 30 GPIO	w/CPU （Cortex M4） Antenna 192KB Flash 24KB RAM 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	9.6 x 12.9 x 2.0
EYSLSNZWW (nRF52810)	*Bluetooth*® low energy v5.0 （2Mbps Data Rate suppurt）	BLE Central and Peripheral SMD type	UART I2C SPI PDM 15 GPIO	w/CPU （Cortex M4） Antenna 192KB Flash 24KB RAM FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	3.25 x 8.55 x 1.00
EYSSSNZWW (nRF52805)	*Bluetooth*® low energy v5.2	BLE Central and Peripheral SMD type	UART I2C SPI 10 GPIO	w/CPU （Cortex M4） Antenna 192KB Flash 24KB RAM FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	3.25 x 8.55 x 1.00
EYSGCNAWY−VX (nRF51822)	*Bluetooth*® low energy v4.2	BLE Central and Peripheral SMD type TAIYO YUDEN Software Embedded	UART	w/CPU （Cortex M0） Antenna 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	9.6 x 12.9 x 2.0
EYSGJNAWY−VX (nRF51822)	*Bluetooth*® low energy v4.2	BLE Central and Peripheral SMD type TAIYO YUDEN Software Embedded	UART	w/CPU （Cortex M0） Antenna FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	5.1 x 11.3 x 1.3
EYSGCNZWY (nRF51822)	*Bluetooth*® low energy v4.2 （＊）	BLE Central and Peripheral SMD type	UART I2C SPI 29 GPIO	w/CPU （Cortex M0） Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	9.6 x 12.9 x 2.0
EYSGCNZXX (nRF51822)	*Bluetooth*® low energy v4.2 （＊）	BLE Central and Peripheral SMD type	UART I2C SPI 29 GPIO	w/CPU （Cortex M0） Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	9.6 x 12.9 x 2.0
EYSGJNZWY (nRF51822)	*Bluetooth*® low energy v4.2 （＊）	BLE Central and Peripheral SMD type	UART I2C SPI 14 GPIO	w/CPU （Cortex M0） Antenna 256KB Flash 32KB RAM FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	5.1 x 11.3 x 1.3

（＊）Supported by S130

FUNCTIONAL MODULES

▶ This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our product specification sheets. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our website (http://www.ty-top.com/) .

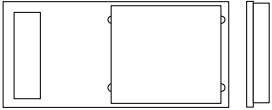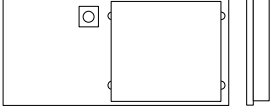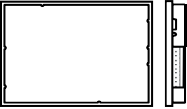| Part number	Function	Module type	I/F	Feature	Outline [mm]（Height : Maximum)
EYSGJNZXX （nRF51822）	*Bluetooth*® low energy v4.2 （＊）	BLE Central and Peripheral SMD type	UART I2C SPI 14 GPIO	w/CPU （Cortex M0) Antenna 256KB Flash 16KB RAM FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	5.1 x 11.3 x 1.3
EYAGJNZXX （nRF51422 ）	*Bluetooth*® low energy v4.2 & ANT	BLE Peripheral SMD type	UART I2C SPI 14 GPIO	w/CPU （Cortex M0) Antenna 256KB Flash 32KB RAM FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	5.1 x 11.3 x 1.3
EYSGCCAXW （CSRB5348 ）	*Bluetooth*® Legacy & low energy v5.0	BLE Central and Peripheral HCI Firmware SMD type	UART	Integrated System Clock Antenna FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	10.0 x 15.4 x 2.0
EYSGCCSXW （CSRB5348 ）	*Bluetooth*® Legacy & low energy v5.0	BLE Central and Peripheral HCI Firmware SMD type	USB	Integrated System Clock Antenna FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	10.0 x 15.4 x 2.0

（＊）Supported by S130

■Sub-1GHz Module

Part number	Function	Module type	I/F	Feature	Outline [mm]（Height : Maximum)
SYSFCSAXX-XX	920MHz band wireless module Compliant IEEE802.15.4g/e	SMD type TAIYO YUDEN Software Embedded	UART	Antenna Japan certified Singlehop and Multihop network	21.0 x 30.0 x 2.6

■CPU Embedded WLAN Module

Part number	Function	Module type	I/F	Feature	Outline [mm]（Height : Maximum)
WYSACVLAY-WX	IEEE802.11b/g/n	SMD type TAIYO YUDEN Software Embedded	UART	Integrated System Clock Antenna Supprt Micro AP FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available W/CPU （Cortex M4)	14.0 x 21.4 x 2.4
WYSACVLAY-AW	IEEE802.11b/g/n	SMD type Application for AWS Software Embedded	UART	Integrated System Clock Antenna FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available W/CPU （Cortex M4)	14.0 x 21.4 x 2.4
WYSACVLXAY-XZ	IEEE802.11b/g/n	SMD type	UART SPI	Integrated System Clock Antenna Supprt Micro AP FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available W/CPU （Cortex M4)	14.0 x 21.4 x 2.4

FUNCTIONAL MODULES

■WLAN+BT Module

Part number	Function	Module type	I/F	Feature	Outline [mm](Height : Maximum)
WYSAGVDXG	IEEE802.11ac/a/b/g/n+*Bluetooth*® 4.2 (Chip antenna Type)	SMD type	SDIO PCM	Integrated System Clock 2.4GHz & 5GHz 11ac(HT80) Dual Band compatible Chip Antenna FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available ETSI EN 301 893 v2.1.1 Conducted Test Report Available	12.0 x 26.0 x 2.0
WYSEGVDXG	IEEE802.11ac/a/b/g/n+*Bluetooth*® 4.2 (RF connector Type)	SMD type	SDIO PCM	Integrated System Clock 2.4GHz & 5GHz 11ac(HT80) U.FL connector for external antenna FCC/ISED/Japan certified	12.0 x 26.0 x 2.0
WYSBHVGXG	IEEE802.11ac/a/b/g/n+*Bluetooth*® 4.2	SMD type	SDIO PCM	Integrated System Clock 2.4GHz & 5GHz 11ac(HT80)	8.9 x 12.6 x 1.9

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FUNCTIONAL MODULES