

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 October 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.

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 conforming to the product specifications specified in the individual product specification sheets, 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, provided, however, that our products shall be used for general-purpose and standard use in the equipment specified in this catalog or the individual product specification sheets.

■ 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.

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 for consumer (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, or the equipment approved separately by TAIYO YUDEN.

TAIYO YUDEN has the product series intended for use in the following equipment. 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.

Application	Product Series		Ouglity Crodo *3
Application	Equipment *1	Category (Part Number Code *2)	Quality Grade *3
Automotive	Automotive Electronic Equipment (POWERTRAIN, SAFETY)	А	1
Automotive	Automotive Electronic Equipment (BODY & CHASSIS, INFOTAINMENT)	С	2
Industrial	Telecommunications Infrastructure and Industrial Equipment	В	2
Medical	Medical Devices classified as GHTF Class C (Japan Class III)	М	2
iviedical	Medical Devices classified as GHTF Classes A or B (Japan Classes I or II)	L	3
Consumer	General Electronic Equipment	S	3

^{*}Notes: 1. Based on the general specifications required for electronic components for such equipment, which are recognized by TAIYO YUDEN, the use of each product series for the equipment is recommended. Please be sure to contact TAIYO YUDEN before using our products for equipment other than those covered by the product series.

2. On each of our part number, the 2nd code from the left is a code indicating the "Category" as shown in the above table. For details,

please check the explanatory materials regarding the part numbering system of each of our products.

3. Each product series is assigned a "Quality Grade" from 1 to 3 in order of higher quality. Please do not incorporate a product into any equipment with a higher Quality Grade than the Quality Grade of such product without the prior written consent of TAIYO YUDEN.

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, 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
 - 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.

WIRELESS MODULE

Our recommended Line Up of Bluetooth® and WLAN Modules

For Smartphone Peripheral & IoT Solution







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

For Industrial Market



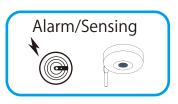


Original Antenna or RF Connector WLAN + $Bluetooth^{\cite{R}}$ Module

For IoT Solution & Industrial









MCU Embedded WLAN Module



2.4GHz & 5GHz Supported WLAN + $Bluetooth^{\circledR}$ Module

- *As this catalog includes some Wireless Modules under development, the specifications of such Modules are subjects to change without prior notice. Evaluation Board & Kit for each module is avarable. And development tools for combine with sensors is avarable. For the latest information, please visit our web site at hppt://www.ty-top.com/ or feel free to contact our sales department.
- **The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by TAIYO YUDEN CO., LTD. is under license. Other trademarks and trade names are those of their respective owners.

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Part number	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	12C	128	OIGS	SMD	Antenna	Japan	FCC	ISED	SE	Remark
EYSQBNZUC	0		0	0						0		0	0		0	0	0		0	0	0	0	0	0*	Dual CPU, 32k X'tal、1M Flash、512K RAM、 BT5.3、Wide Temp.
EYSKBNUWB-VX	0											0	0		0				0	0	0	0	0	0*	TY's APP、32k X'tal、BT5
EYSKJNAWB-VX	0											0							0	0	0	0	0	0*	TY's APP、BT5
EYSKBNZWB	0		O	0						0		0	0		0	0	0		0	0	0	0	0	0*	32k X'tal、1M Flash、256K RAM、BT5(Full)
EYSKDNZWB	0		O ^Δ	0						0		0	0		0	0	0		0	0	0	0	0	0*	High Performance Antenna, 1M Flash, 256K RAM, BT5(Full)
EYSKJNZWB	0		O ^Δ	0						0		0			0	0	0		0	0	0	0	0	0*	1M Flash、256K RAM、BT5(Full)
EYSPBNZUA	0		O ^Δ	0						0		0	0		0	0	0		0	0	0	0	0	0*	32k X'tal, 512K Flash, 128K RAM, BT5.2, Wide Temp.
EYSPDNZUA	0		O ^Δ	0						0		0	0		0	0	0		0	0	0	0	0	0*	High Performance Antenna, 512K Flash, 128K RAM, BT5.3, Wide Temp.
EYSPJNZUA	0		O ^Δ	0						0		0			0	0	0		0	0	0	0	0	0*	512K Flash、128K RAM、BT5.3、Wide Temp.
EYSHCNZWZ	0		0*	0								0			0	0	0		0	0	0	0	0	0**	32k X'tal、512K Flash、64K RAM、BT5
EYSHJNZWZ	0		0*	0								0			0	0	0		0	0	0	0	0	0**	512K Flash、64K RAM、BT5
EYSHSNZWZ	0		0*	0								0			0	0	0		0	0	0	0	0	0**	512K Flash、64K RAM、BT5
EYSRCNZUY	0		O ^Δ							0		0	0		0	0			0	0	0	0	0	0*	32k X'tal、256K Flash、32K RAM、BT5.3、Wide Temp.
EYSRSNZUY	0		O ^Δ							0		0	0		0	0			0	0	0	0	0	0*	256K Flash、32K RAM、BT5.3、Wide Temp.
EYSNCNZWW	0		0*							0		0			0	0			0	0	0	0	0	0*	32k X'tal、192K Flash、24K RAM、BT5.2
EYSNSNZWW	0		0*							0		0			0	0			0	0	0	0	0	0*	192K Flash、24K RAM、BT5.2
EYSLCNZWW	0		0*									0			0	0			0	0	0	0	0	0*	32k X'tal、192K Flash、24K RAM、BT5
EYSLSNZWW	0		0*									0			0	0			0	0	0	0	0	0*	192K Flash、24K RAM、BT5
EYSGCNAWY-VX	0											0							0	0	0	0	0	0*	TY's APP、32k X'tal
EYSGJNAWY-VX	0											0							0	0	0	0	0	0*	TY's APP
EYSGCNZWY	0											0			0	0			0	0	0	0	0	0*	32k X'tal、256K Flash、32K RAM
EYSGCNZXX	0											0			0	0			0	0	0	0	0	0*	32k X'tal、256K Flash、16K RAM
EYSGJNZWY	0											0			0	0			0	0	0	0	0	0*	256K Flash、32K RAM
EYSGJNZXX	0											0			0	0			0	0	0	0	0	0*	256K Flash、16K RAM
EYAGJNZXX	0		0									0			0	0			0	0	0	0	0	0*	256K Flash、32K RAM
EYSGCCAXW	0	0										0							0	0	0	0	0	0*	HCI Firmware
EYSGCCSXW	0	0											0						0	0	0	0	0	0*	HCI Firmware

nRF Connect SDK
* Softdevice S332

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

WLAN + MCU Module

	Function							I/F						Module type Type approval			pprov	/al							
Part number	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	IdS	12C	12S	OIGS	SMD	Antenna	Japan	FCC	ISED	CE	Remark
WYSACVLAY-XZ						0	0	0				0			0				0	0	0	0	0	O* w	v/Cortex M4F、4MB-Flash ROM

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

■WLAN + Bluetooth@		ombo Module																							
	Function									I/F					dule pe	Т	ype a	pprov	ral .						
Part number	BLE	BT Classic	ANT	OHN	802.11a	802.11b	802.11g	802.11n	802.11ac	802.15.4 (Thread)	15.	NART	nsB	MOd	IdS	120	128	oids	SMD	Antenna	Japan	FCC	ISED	CE	Remark
WYSAGVDXG	0	0			0	0	0	0	0					0				0	0	0	0	0	0	0*	Dual Band Antenna(Chip)
WYSEGVDXG	0	0			0	0	0	0	0					0				0	0	∆**	0	0	0		RF Connector(Limited antenna)
WYSBHVGXG	0	0			0	0	0	0	0					0				0	0						

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

 $^{^{\}triangle}$ Softdevice S340

Softdevice S313

[♦] Softdevice S312

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

Part		nergy & ANT Module, Bluetooth® Dual Mode M				
Secretaria Sec			• • • • • • • • • • • • • • • • • • • •			-
A MFC-A Type-2 Dat OPU Emockedor (Application & Network) Dat OPU Emockedor (Dat OPU E			· ·			
Data CPUE Embodeded Aprilication S. Markers	(nRF5340)	& 802.15.4 (Thread)	SMD type	l l		
Date OF UP Embedded Application & Network Date						
POSITION NO. Processed of Processed State		Dual CPU Embedded(Application & Network)		SPI	1MB Flash (AP),256KB Flash (Network)	
Section Sect				I2S	512KB RAM(AP), 64KB RAM(Network)	
ETORIENTORS Revisedo in the energy v50 BLC Control and Purpleved SMD type TATYO YUDEN Software Embedded SMT SMD 2004 Control and Purpleved SMD type TATYO YUDEN Software Embedded SMT SMD 2004 Control and Purpleved SMD type SMD 2004 Control and Purpleved SMD 200				PDM	FCC/ISED/Japan certified	
ELC Central and Persphered DART More Company				46 GPIO		
Mod type	EVOLUDA II		BIS O B			100 151 00
TAYO YUDEN Software Embedded SPI Antenna		Bluetooth® low energy v5.0	· ·			
FYSKLANAMS-VX Bluetocobili low energy v3.0 SLE Central and Perpheral SMD type	(nRF52840)		1		·	
ETSELEN 00 382 of 2.2 Conducted Test			TAIYO YUDEN Software Embedded	SPI		
EPSKLIAWAND - VX					' ' '	
EPSKANAWB-VX Subsector if low energy vs.0.0 SILE Central and Peripheral SAID type						
FORCEMAND Substantified					Report Available	
SAMD type	EVSK INIVMB=//X	Physics ath ® law anarmy v5.0	DI E Control and Davinhard	LIADT	w/CDIL (Cortox MAE)	
TAY/O YUDEN Software Embedded FISE IN 30 23 at 22.2 Conducted Test FISE IN 30 23 at 22.2 C		Bluetooth® low energy V5.0	-	UARI		5.1 X 11.3 X 1.3
ETSIS N 300 328 v 22 2 Conducted Test Report N 2016 v	(nRF32840)		1			
EYSKINLYMB Successful live energy v5.0 (Full) SLE Central and Peripheral USB			TAIYO YUDEN Software Embedded		1	
EYSKINIZ/MB (A 802 15 4 Thread)						
SMD type					Report Available	
Antenna	EYSKBNZWB	Bluetooth® low energy v5.0(Full)	BLE Central and Peripheral	UART	w/CPU (Cortex M4F)	10.0 x 15.4 x 2.0
Antenna	(nRF52840)	& 802.15.4 (Thread)	SMD type	USB	32kHz Crystal	
SP IMB Flash FCC.78ED/Japan certified FC				l l		
25 25 25 26 26 26 27 27 28 28 28 28 28 28		ani o n Typo z				
PDM						
## Special Control of the wind was provided in the property of						
EYSKJNZVB					' ' '	
EYSKUNZWB (nFF32840)				46 GPIO		
SMD type	FYSKDNZWB	Bluetooth® low energy v5.0(Full)	BLF Central and Peripheral	HART		96 x 12 9 x 1 4
Biling B				l l		9.0 X 12.9 X 1.4
SPT 256R RAM 700 275	(NRF32840)			l l		
EYSLINZWB		& NFC-A Type-2	High Performance Antenna Type			
POM 19 CPG FTSIE N 300 238 v 2.2 2 Conducted Test POM 19 CPG PReport Available PREPARED PREP						
19 GPIO Report Available				l l	FCC/ISED/Japan certified	
EYSPDNZUA (nRF52833) EYSPDNZUA (nRF52832) EYDM (nRF52832) EYSPDNZUA (nRF52832) EYSPDNZUA (nRF52832) EYSPDNZUA (nRF52832) EYSPD						
Antenna				19 GPIO	Report Available	
Antenna	EVEK INIZWO	Bloods at the law and the Delivery	DLE Control and Deviate and	LIADT	···/ODIL (O. to MAE)	F1 11 2 1 2
## NFC-A Type-2 ## NFC			· ·			5.1 X 11.3 X 1.3
22S 256KB RAM PDM FCC/ISED/Japan certified FCSI EN 300 328 v2.22 Conducted Test Report Available	(nRF52840)		SMD type	l l		
PDM		& NFC-A Type-2				
SPENDENTIAL				I2S	256KB RAM	
EYSPDNZUA (nRF52833) ### A				PDM	FCC/ISED/Japan certified	
EYSPDNZUA (nRF52833) Bluetooth® low energy v5.2 BLE Central and Peripheral USB 32kHz Crystal 32kHz				15 GPIO	ETSI EN 300 328 v2.2.2 Conducted Test	
SMD type USB 32kHz Crystal 2C Antenna SIZKB Flash 12S 128KB RAM PDM FCO/SED/Japan certified ETSI EN 300 328 v2.22 Conducted Test Report Available Report Avail						
Section Sect			' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	l l		10.0 x 15.4 x 2.0
SPI 12KB Flash 128KB RAM PDM FCC/ISED/Japan certified FCC/ISED/	(nRF52833)		SMD type			
128		& NFC-A Type-2		l l		
2				SPI	512KB Flash	
PDM FCC/ISED/Japan certified ETSI EN 300 328 v2.22 Conducted Test Report Available Complex R				I2S	128KB RAM	
Report Available Operation temperature: 40°C ~ 105°C				PDM	FCC/ISED/Japan certified	
Report Available Operation temperature: 40°C ~ 105°C				40 ODIO	ETSI EN 300 328 v2.2.2 Conducted Test	
EYSPONZUA				40 GPIO	Report Available	
SMD type						
### Reference Antenna Type ##				l l		9.6 x 12.9 x 1.4
SPI 128KB RAM 128 FCC/ISED/Japan certified FTSI EN 300 328 v2.2.2 Conducted Test 19 GPIO Report Available Operation temperature:—40°C ~ 105°C Operation temperature:—4	(nRF52833)			l l		999
12S		& NFC-A Type-2	High Performance Antenna Type			
PDM				SPI	128KB RAM	
PDM ETSI EN 300 328 v2.2.2 Conducted Test Report Available Operation temperature:—40°C ~ 105°C				I2S	FCC/ISED/Japan certified	
19 GPIO Report Available Operation temperature:-40°C ~ 105°C				PDM	ETSI EN 300 328 v2.2.2 Conducted Test	
Bluetooth® low energy v5.3					Report Available	
(nRF52833) & 802.15.4 (Thread) & NFC-A Type-2 SMD type 12C	EVED INIZUA	Blocks of the Classes of Co.	DIE Control and D	LIADT		5111212
& NFC-A Type-2 SPI 128KB RAM FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available Operation temperature:—40°C~105°C W/CPU (Cortex M4F) Antenna SPI 512KB Flash 128KB RAM FCC/ISED/Japan certified Operation temperature:—40°C~105°C W/CPU (Cortex M4F) Antenna SPI 512KB Flash 12C Antenna SPI 512KB Flash 12S 64KB RAM PDM 32kHz Crystal 30 GPIO FCC/ISED/Japan certified Complies with standards required by RED (2014/53/EU) ETSI EN 300 328 v2.2.2 Conducted Test						0.1 x 11.3 x 1.3
128	(11111 02000)		OND type			
PDM 15 GPIO ETSI EN 300 328 v.2.2.2 Conducted Test Report Available Operation temperature: -40°C ~ 105°C W/OPU (Cortex M4F) 8 NFC-A Type-2 BLE Central and Peripheral SMD type BLE Central and Peripheral SMD type UART VOPU (Cortex M4F) Antenna SPI 512KB Flash 12S 64KB RAM PDM 32kHz Crystal 30 GPIO FCC/ISED/Japan certified Complies with standards required by RED (2014/53/EU) ETSI EN 300 328 v.2.2.2 Conducted Test						
Substitution Provided Provi				PDM	FCC/ISED/Japan certified	
EYSHCNZWZ (nRF52832) Bluetooth® low energy v5.0 BLE Central and Peripheral SMD type I2C Antenna SPI 512KB Flash I2S 64KB RAM PDM 32kHz Crystal 30 GPIO (Configuration temperature: -40°C ~ 105°C w/CPU (Cortex M4F) 9.6 x 12.9 x 2.0					ETSI EN 300 328 v2.2.2 Conducted Test	
EYSHCNZWZ (nRF52832) Bluetooth® low energy v5.0 & NFC-A Type-2 BLE Central and Peripheral SMD type BLE Central and Peripheral SMD type UART VCPU (Cortex M4F) 9.6 x 12.9 x 2.0 Antenna 12C Antenna 12S 64KB RAM 12S 64KB RAM 12S 64KB RAM 12S 64KB RAM 12S 12S						
(nRF52832) & NFC-A Type-2 SMD type 12C	EVSHON7W7	Bluetooth® low anarmy v50	BLE Central and Davinhavel	ΠΔDT		96 v 129 v 20
SPI 512KB Flash 12S 64KB RAM PDM 32kHz Crystal 30 GPIO FCC/ISED/Japan certified Complies with standards required by RED (2014/53/EU) ETSI EN 300 328 v2.2.2 Conducted Test						3.0 X 12.3 X 2.0
I2S 64KB RAM PDM 32kHz Crystal 30 GPIO FCC/ISED/Japan certified Complies with standards required by RED (2014/53/EU) ETSI EN 300 328 v2.2.2 Conducted Test	(1111 02002)	and Alype 2	Cino type	l l		
PDM 32kHz Crystal 30 GPIO FCC/ISED/Japan certified Complies with standards required by RED (2014/53/EU) ETSI EN 300 328 v2.2.2 Conducted Test				l l		
30 GPIO FCC/ISED/Japan certified Complies with standards required by RED (2014/53/EU) ETSI EN 300 328 v2.2.2 Conducted Test						
Complies with standards required by RED (2014/53/EU) ETSI EN 300 328 v2.2.2 Conducted Test						_
(2014/53/EU) ETSI EN 300 328 v2.2.2 Conducted Test				30 GPIO	· ·	
ETSI EN 300 328 v2.2.2 Conducted Test				1		
				1		
					Report Available	

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

	Function	Module type	I/F	Feature	Outline [mm] (Height : Maximum)
EYSHJNZWZ	Bluetooth® low energy v5.0	BLE Central and Peripheral	UART	w/CPU (Cortex M4F)	5.1 x 11.3 x 1.3
(nRF52832)	& NFC-A Type-2	SMD type	I2C	Antenna	
			SPI	512KB Flash	
			I2S	64KB RAM	
			PDM	FCC/ISED/Japan certified	
			15 GPIO	Complies with standards required by RED (2014/53/EU)	
				ETSI EN 300 328 v2.2.2 Conducted Test	
				Report Available	
EYSHSNZWZ	Bluetooth® low energy v5.0	BLE Central and Peripheral	UART	w/CPU (Cortex M4F)	3.25 x 8.55 x 0.85
(nRF52832)	& NFC-A Type-2	SMD type	I2C	Antenna	
			SPI	512KB Flash	
			I2S	64KB RAM	
			PDM	FCC/ISED/Japan certified	
			15 GPIO	Complies with standards required by RED	
				(2014/53/EU) ETSI EN 300 328 v2.2.2 Conducted Test	
				Report Available	
EYSRCNZUY	Bluetooth® low energy v5.3	BLE Central and Peripheral	UART	w/CPU (Cortex M4)	9.6 x 12.9 x 2.0
(nRF52820)	& 802.15.4 (Thread)	SMD type	USB	32kHz Crystal	
			I2C SPI	Antenna 256KB Flash	
			PDM	32KB RAM	
				FCC/ISED/Japan certified	
				ETSI EN 300 328 v2.2.2 Conducted Test	
				Report Available Operation temperature:-40°C~105°C	
EYSRSNZUY	Bluetooth® low energy v5.3	BLE Central and Peripheral	UART	w/CPU (Cortex M4)	3.25 x 8.55 x 1.00
(nRF52820)	& 802.15.4 (Thread)	SMD type	USB	Antenna	
			I2C	256KB Flash	
			SPI PDM	32KB RAM FCC/ISED/Japan certified	
				ETSI EN 300 328 v2.2.2 Conducted Test	
				Report Available	
				Operation temperature:-40°C ~105°C	
EYSNCNZWW	Bluetooth® low energy v5.2	BLE Central and Peripheral	UART	w/CPU (Cortex M4)	9.6 x 12.9 x 2.0
(nRF52811)	& 802.15.4 (Thread)	SMD type	I2C	Antenna	
, <u></u> ,		3,6	SPI	192KB Flash	
			PDM	24KB RAM	
			30 GPIO	32kHz Crystal FCC/ISED/Japan certified	
				ETSI EN 300 328 v2.2.2 Conducted Test	
				Report Available	
EYSNSNZWW	Bluetooth® low energy v5.2	BLE Central and Peripheral	UART	w/CPU (Cortex M4)	3.25 x 8.55 x 1.00
(nRF52811)	& 802.15.4 (Thread)	SMD type	I2C SPI	Antenna 192KB Flash	
			PDM	24KB RAM	
			15 GPIO	FCC/ISED/Japan certified	
				ETSI EN 300 328 v2.2.2 Conducted Test Report Available	
EYSLCNZWW	Bluetooth® low energy v5.0	BLE Central and Peripheral	UART	w/CPU (Cortex M4)	9.6 x 12.9 x 2.0
(nRF52810)	(2Mbps Data Rate support)	SMD type	I2C	Antenna	
			SPI	192KB Flash	
			PDM	24KB RAM	
			30 GPIO	32kHz Crystal	
				FCC/ISED/Japan certified	
				ETSI EN 300 328 v2.2.2 Conducted Test	
EYSLSNZWW	Bluetooth® low energy v5.0	BLE Central and Peripheral	UART	Report Available w/CPU (Cortex M4)	3.25 x 8.55 x 1.00
(nRF52810)	(2Mbps Data Rate support)	SMD type	I2C	Antenna	5.25 A 6.66 A 1.96
52010/	Campbe Batta Natio Supports	55 3,50	SPI	192KB Flash	
			PDM	24KB RAM	
			I .	FCC/ISED/Japan certified	
			10 01 10	ETSI EN 300 328 v2.2.2 Conducted Test	
				Report Available	
EYSGCNAWY-VX	Bluetooth® low energy v4.2	BLE Central and Peripheral	UART	w/CPU (Cortex M0)	9.6 x 12.9 x 2.0
EYSGCNAWY-VX (nRF51822)	Bluetooth® low energy v4.2	SMD type	UART	Antenna	9.6 x 12.9 x 2.0
	Bluetooth® low energy v4.2		UART	Antenna 32kHz Crystal	
	Bluetooth® low energy v4.2	SMD type	UART	Antenna 32kHz Crystal FCC/ISED/Japan certified	
	Bluetooth® low energy v4.2	SMD type	UART	Antenna 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test	
	Bluetooth® low energy v4.2	SMD type	UART	Antenna 32kHz Crystal FCC/ISED/Japan certified	
	Bluetooth® low energy v4.2	SMD type	UART	Antenna 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test	
	Bluetooth® low energy v4.2 Bluetooth® low energy v4.2	SMD type TAIYO YUDEN Software Embedded BLE Central and Peripheral	UART	Antenna 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test	
(nRF51822)		SMD type TAIYO YUDEN Software Embedded BLE Central and Peripheral SMD type		Antenna 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available	
(nRF51822) EYSGJNAWY-VX		SMD type TAIYO YUDEN Software Embedded BLE Central and Peripheral		Antenna 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available w/CPU (Cortex M0) Antenna FCC/ISED/Japan certified	
(nRF51822) EYSGJNAWY-VX		SMD type TAIYO YUDEN Software Embedded BLE Central and Peripheral SMD type		Antenna 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available w/CPU (Cortex M0) Antenna FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test	5.1 x 11.3 x 1.3
(nRF51822) EYSGJNAWY-VX		SMD type TAIYO YUDEN Software Embedded BLE Central and Peripheral SMD type		Antenna 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available w/CPU (Cortex M0) Antenna FCC/ISED/Japan certified	
(nRF51822) EYSGJNAWY-VX (nRF51822)	Bluetooth® low energy v4.2	SMD type TAIYO YUDEN Software Embedded BLE Central and Peripheral SMD type TAIYO YUDEN Software Embedded	UART	Antenna 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available 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
(nRF51822) EYSGJNAWY-VX		SMD type TAIYO YUDEN Software Embedded BLE Central and Peripheral SMD type		Antenna 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available w/CPU (Cortex M0) Antenna FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test	5.1 x 11.3 x 1.3 9.6 x 12.9 x 2.0
EYSGJNAWY-VX (nRF51822)	Bluetooth® low energy v4.2	SMD type TAIYO YUDEN Software Embedded BLE Central and Peripheral SMD type TAIYO YUDEN Software Embedded BLE Central and Peripheral	UART UART IZC	Antenna 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available w/CPU (Cortex M0) Antenna FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available w/CPU (Cortex M0) Antenna	5.1 x 11.3 x 1.3
EYSGJNAWY-VX (nRF51822)	Bluetooth® low energy v4.2	SMD type TAIYO YUDEN Software Embedded BLE Central and Peripheral SMD type TAIYO YUDEN Software Embedded BLE Central and Peripheral	UART I2C SPI	Antenna 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available w/CPU (Cortex M0) Antenna FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available w/CPU (Cortex M0) Antenna 256KB Flash	5.1 x 11.3 x 1.3 9.6 x 12.9 x 2.0
EYSGJNAWY-VX (nRF51822)	Bluetooth® low energy v4.2	SMD type TAIYO YUDEN Software Embedded BLE Central and Peripheral SMD type TAIYO YUDEN Software Embedded BLE Central and Peripheral	UART I2C SPI	Antenna 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available w/CPU (Cortex M0) Antenna FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM	5.1 x 11.3 x 1.3 9.6 x 12.9 x 2.0
EYSGJNAWY-VX (nRF51822)	Bluetooth® low energy v4.2	SMD type TAIYO YUDEN Software Embedded BLE Central and Peripheral SMD type TAIYO YUDEN Software Embedded BLE Central and Peripheral	UART I2C SPI	Antenna 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available w/CPU (Cortex M0) Antenna FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal	5.1 x 11.3 x 1.3 9.6 x 12.9 x 2.0
EYSGJNAWY-VX (nRF51822)	Bluetooth® low energy v4.2	SMD type TAIYO YUDEN Software Embedded BLE Central and Peripheral SMD type TAIYO YUDEN Software Embedded BLE Central and Peripheral	UART I2C SPI	Antenna 32kHz Crystal FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available w/CPU (Cortex M0) Antenna FCC/ISED/Japan certified ETSI EN 300 328 v2.2.2 Conducted Test Report Available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM	5.1 x 11.3 x 1.3 9.6 x 12.9 x 2.0

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Part number	Function	Module type	I/F	Feature	Outline [mm] (Height : Maximum)
EYSGCNZXX	Bluetooth® low energy v4.2 (*)	BLE Central and Peripheral	UART	w/CPU (Cortex M0)	9.6 x 12.9 x 2.0
(nRF51822)		SMD type	I2C	Antenna	
			SPI	256KB Flash	
			29 GPIO	16KB RAM	
				32kHz Crystal	
				FCC/ISED/Japan certified	
				ETSI EN 300 328 v2.2.2 Conducted Test	
				Report Available	
EYSGJNZWY	Bluetooth® low energy v4.2 (∗)	BLE Central and Peripheral	UART	w/CPU (Cortex M0)	5.1 x 11.3 x 1.3
(nRF51822)		SMD type	I2C	Antenna	
			SPI	256KB Flash	
			14 GPIO	32KB RAM	
				FCC/ISED/Japan certified	
				ETSI EN 300 328 v2.2.2 Conducted Test	
				Report Available	
EYSGJNZXX	Bluetooth® low energy v4.2 (∗)	BLE Central and Peripheral	UART	w/CPU (Cortex M0)	5.1 x 11.3 x 1.3
(nRF51822)		SMD type	I2C	Antenna	
			SPI	256KB Flash	
			14 GPIO	16KB RAM	
				FCC/ISED/Japan certified	
				ETSI EN 300 328 v2.2.2 Conducted Test	
				Report Available	
EYAGJNZXX	Bluetooth® low energy v4.2	BLE Peripheral	UART	w/CPU (Cortex M0)	5.1 x 11.3 x 1.3
(nRF51422)	& ANT	SMD type	I2C	Antenna	
			SPI	256KB Flash	
			14 GPIO	32KB RAM	
				FCC/ISED/Japan certified	
				ETSI EN 300 328 v2.2.2 Conducted Test	
EYSGCCAXW	Bluetooth® Classic & low energy v5.0	BLE Central and Peripheral	UART	Report Available	10.0 x 15.4 x 2.0
	Bluetooth® Glassic & low energy V5.0	· ·	UARI	Integrated System Clock	
(CSRB5348)		HCI Firmware		Antenna	
		SMD type		FCC/ISED/Japan certified	•
				ETSI EN 300 328 v2.2.2 Conducted Test	=
				Report Available	•
EYSGCCSXW	Bluetooth® Classic & low energy v5.0	BLE Central and Peripheral	USB	Integrated System Clock	10.0 x 15.4 x 2.0
(CSRB5348)	Diactootife Classic & low effergy Vo.0	HCI Firmware	035		
(O3RD3340 /				Antenna FCC/ISED/Japan certified	
		SMD type		I	•
				ETSI EN 300 328 v2.2.2 Conducted Test Report Available	=
				Topoi e Avaliable	-
	(*) Supported by \$130				

(*)Supported by S130

WLAN + MCU Module

Part number	Function	Module type	I/F	Feature	Outline [mm] (Height : Maximum)
WYSACVLAY-XZ	IEEE802.11b/g/n	SMD type	UART	Integrated System Clock	14.0 x 21.4 x 2.4
			SPI	Antenna	
				Support Micro AP	
				FCC/ISED/Japan certified	8
				ETSI EN 300 328 v2.2.2 Conducted Test	
				Report Available	
				W/CPU (Cortex M4F)	

■WLAN + <i>Bluetooth®</i>	Combo Module	

Part number	Function	Module type	I/F	Feature	Outline [mm] (Height : Maximum)
WYSAGVDXG	IEEE802.11ac/a/b/g/n+Bluetooth® 4.2	SMD type	SDIO	Integrated System Clock	11.5 x 24.0 x 2.0
	(Chip antenna Type)		PCM	2.4GHz & 5GHz	
				11ac(VHT80)	
				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	
WYSEGVDXG	IEEE802.11ac/a/b/g/n+Bluetooth® 4.2	SMD type	SDIO	Report Available Integrated System Clock	11.5 x 24.0 x 2.0
WISEGVDAG	(RF connector Type)	SIMID type	PCM	2.4GHz & 5GHz	11.5 X 24.0 X 2.0
	(RF connector Type)		POW	11ac(VHT80)	
				U.FL connector for external antenna	
				FCC/ISED/Japan certified	
WYSBHVGXG	IEEE802.11ac/a/b/g/n+Bluetooth® 4.2	SMD type	SDIO	Integrated System Clock	8.9 x 12.6 x 1.9
			PCM	2.4GHz & 5GHz	
				11ac(VHT80)	

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