Notice for TAIYO YUDEN Products

Please read this notice before using the TAIYO YUDEN products.

!\ REMINDERS

Product information in this catalog is as of October 2017. All of the contents specified herein are subject to change without notice due to technical improvements, 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.

- Please contact TAIYO YUDEN for further details of product specifications as the individual product specification sheets are available.
- Please conduct validation and verification of our products in actual condition of mounting and operating environment before using our products.
- The products listed in this catalog are intended for 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 medical equipment classified as Class I or II by IMDRF. Please be sure to contact TAIYO YUDEN for further information before using the products for any equipment which may directly cause loss of human life or bodily injury (e.g., transportation equipment including, without limitation, automotive powertrain control system, train control system, and ship control system, traffic signal equipment, disaster prevention equipment, medical equipment classified as Class III by IMDRF, highly public information network equipment including, without limitation, telephone exchange, and base station).

Please do not incorporate our products into any equipment requiring high levels of safety and/or reliability (e.g., aerospace equipment, aviation equipment*, medical equipment classified as Class IV by IMDRF, nuclear control equipment, undersea equipment, military equipment).

*Note: 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.

When our products are used even for high safety and/or reliability-required devices or circuits of general electronic equipment, it is strongly recommended to perform a thorough safety evaluation prior to use of our products and to install a protection circuit as necessary.

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 requiring inquiry to TAIYO YUDEN or prohibited for use by TAIYO YUDEN as described above.

- 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.
- 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 fault 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.
- 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.

Wireless Module

Our recommended Line Up of Bluetooth®, W-LAN & GPS Module

■ For Smartphone Peripheral & IoT Solution

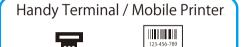






Bluetooth® low energy Module

For Industrial Market







WLAN (+BT)
Original or ON-board Antenna & FPC Connector

For IoT Solution & Industrial















*As some of the Wireless Modules listed above are still under development, the specification is subject to change without prior notice. We also have Evaluation Kits for our modules.

For the latest information, please visit our web site at http://www.ty-top.com/ or feel free to contact our sales department.

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[▶] 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/).

■ Bluetooth® low ene	ergy M	odule																								
					F	unctio	n								I/F				Мо	dule t	уре	Т	ype a	pprova	al	
Part number	BLE	ВТ	ANT	NFC	802.11a	802.11b	802.11g	802.11n	802.11ac	GPS	GLONASS	UART	USB	PCM	SPI	12C	128	SDIO	SMD	Connector	Antenna	Japan	FCC	IC	CE	Remark
EYSHSNZWZ	0		0*	0								0			0	0	0		0		0	0	0	0	0*	Ultra Small,64k RAM
EYSHJNZWZ	0		0*	0								0			0	0	0		0		0	0	0	0	0*	64k RAM
EYSGJNZXX	0											0			0	0			0		0	0	0	0	0*	16k RAM
EYSGJNZWY	0											0			0	0			0		0	0	0	0	0*	32k RAM
EYSGJNAWY-1X	0											0							0		0	0	0	0	0*	TY's APP(Lite)
EYSGJNAWY-WX	0											0							0		0	0	0	0	0*	TY's APP
EYSHCNZWZ	0		0*	0								0			0	0	0		0		0	0	0	0	0*	32k X'tal,64k RAM
EYSGCNZXX	0											0			0	0			0		0	0	0	0	0*	32k X'tal,16k RAM
EYSGCNZWY	0											0			0	0			0		0	0	0	0	0*	32k X'tal,32k RAM
EYSGCNAWY-1X	0											0							0		0	0	0	0	0*	32k X'tal,TY's APP(Lite)
EYSGCNAWY-WX	0											0							0		0	0	0	0	0*	32k X'tal,TY's APP

*Softdevice S332

*CE Conducted test report available

5 1					
Rluetooth®	low energy	X.	ANI	Module	

					F	unctio	n								I/F				Мо	dule t	уре	T	уре а	pprov	al	
Part number	BLE	ВТ	ANT	NFC	802.11a	802.11b	802.11g	802.11n	802.11ac	Sd5	GLONASS	UART	asn	МОЧ	IdS	12C	SZI	OIGS	QWS	Connector	Antenna	Japan	PCC	OI	CE	Remark
EYAGJNZXX	0	_	0									0			0	0			0		0	0	0	0	0*	32k RAM

*CE Conducted test report available

01 1 11 0	D 1		
Bluetooth®	Duai	wode	wodule

Part number						F	unctic	n								I/F				Мо	dule t	уре	٦	ype a	pprov	al	
	Part number		ВТ	ANT	NFC	Ξ	Ξ	2.11	802.11n	02.11a	Δ.	LONA	AR	\neg	PCM		12C	12.8	SDIO	Σ	Connector		par	0	IC	CE	Remark
EYSGCCSXX OOO OO	EYSGCCAXX	0	0										0							0		0	0	0	0	0*	
	EYSGCCSXX	0	0											0						0		0	0	0	0	0*	

*CE Conducted test report available

■CPU Embedded WLAN Module

					F	unctio	n								I/F				Мо	dule t	ype	Т	уре а	pprov	al	
Part number	BLE	ТВ	ANT	NFC	802.11a	802.11b	802.11g	802.11n	802.11ac	Sd5	GLONASS	NART	asn	МОЧ	SPI	12C	SZI	OIGS	QWS	Connector	Antenna	Japan	PCC	OI	CE	Remark
WYSACVLXY-XZ						0	0	0				0							0		0	0	0	0	0*	
WYSACVLXY-XX						0	0	0				0							0		0	0	0	0	0*	TY's APP

*CE Conducted test report available

WLAN or WLAN+BT Module

WLAN OF WLAN-BT	WIOUU	110																								
					F	unctio	n								I/F				Mo	dule t	уре	Т	ype a	pprov	al	
Part number	BLE	ВТ	ANT	NFC	802.11a	802.11b	802.11g	802.11n	802.11ac	GPS	GLONASS	UART	USB	PCM	SPI	12 C	128	SDIO	SMD	Connector	Antenna	Japan	FCC	IC	CE	Remark
WYSBHVGXG	0	0			0	0	0	0	0					0				0	0							
WYSAGVDX7						0	0	0										0		0	0	0	0	0		
WYSAAVDXB		0			0	0	0	0						0				0		0	0	0				
WYSAAVDX7						0	0	0										0	0		0	0	0	0		
WYSBMVGXB		0			0	0	0	0						0				0	0							
WYSAGVDXG	0	0			0	0	0	0	0									0	0		0	0	0	0	0*	

*CE Conducted test report available

■GNSS Module

					F	unctio	n								I/F				Мо	dule ty	уре	T	уре а	pprova	al	
Part number	BLE	ВТ	ANT	NFC	802.11a	802.11b	802.11g	802.11n	802.11ac	GPS	GLONASS	UART	USB	PCM	SPI	12C	128	SDIO	SMD	Connector	Antenna	Japan	FCC	IC	CE	Remark
GYSFFMAXB										0		0							0							
GYSFFMAXC										0	0	0							0							
GYSFDMAXB										0		0								0	0					

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Part number	Function	Module type	I/F	Feature	Outline [mm] (Height : Maximum)
EYSHSNZWZ	Bluetooth® low energy v5.0	BLE Slave and Master	UART	w/CPU (Cortex M4F)	8.55 x 3.25 x 0.9
(nRF52832)	& NFC-A Type-2	NFC-A Type-2	I2C	Antenna	
		SMD type	SPI I2S	512KB Flash 64KB RAM	
			PDM	FCC/IC/Japan certified	
			15 GPIO	CE Conducted test report available	
EYSHJNZWZ	Physics at h @ law anarra 1150	BLE Slave and Master	UART	w/CPU (Cortex M4F)	11.3 x 5.1 x 1.3
(nRF52832)	Bluetooth® low energy v5.0 & NFC-A Type-2	NFC-A Type-2	I2C	Antenna	11.5 x 5.1 x 1.5
,,		SMD type	SPI	512KB Flash	
			I2S	64KB RAM	
			PDM 15 GPIO	FCC/IC/Japan certified CE Conducted test report available	
			15 GPIO	GE Conducted test report available	
EYSGJNZXX	Bluetooth® low energy v4.2 (*)	BLE Slave and Master	UART	w/CPU (Cortex M0)	11.3 x 5.1 x 1.3
(nRF51822)		SMD type	I2C SPI	Antenna 256KB Flash	T
			14 GPIO	16KB RAM	
				FCC/IC/Japan certified	
				CE Conducted test report available	
EYSGJNZWY	Bluetooth® low energy v4.2 (*)	BLE Slave and Master	UART	w/CPU (Cortex M0)	11.3 x 5.1 x 1.3
(nRF51822)		SMD type	I2C	Antenna	
			SPI	256KB Flash	
			14 GPIO	32KB RAM FCC/IC/Japan certified	
				CE Conducted test report available	
EYSGJNAWY-1X	Bluetooth® low energy v4.1	BLE Slave and Master	UART	w/CPU (Cortex M0)	11.3 x 5.1 x 1.3
(nRF51822)	Bidetooting low energy v4.1	SMD type	UAINT	Antenna	11.5 x 5.1 x 1.5
		TAIYO YUDEN Software Embedded		FCC/IC/Japan certified	
		(Lite Version)		CE Conducted test report available	
				(
EYSGJNAWY-WX (nRF51822)	Bluetooth® low energy v4.1	BLE Slave and Master SMD type	UART	w/CPU (Cortex M0) Antenna	11.3 x 5.1 x 1.3
(1114 01022)		TAIYO YUDEN Software Embedded		FCC/IC/Japan certified	
		(Full Version)		CE Conducted test report available	
EYSHCNZWZ	Bluetooth® low energy v5.0	BLE Slave and Master	UART	w/CPU (Cortex M4F)	12.9 × 9.6 × 2.0
(nRF52832)	& NFC-A Type-2	NFC-A Type-2	I2C	Antenna	
	G 111 G 71 1796 E				
		SMD type	SPI I2S	512KB Flash 64KB RAM	
	2 3		SPI I2S PDM	512KB Flash 64KB RAM 32kHz Crystal	
			SPI I2S	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified	
			SPI I2S PDM	512KB Flash 64KB RAM 32kHz Crystal	
EVECCENTYV		SMD type	SPI I2S PDM 30 GPIO	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available	
EYSGCNZXX (nRF51822)	Bluetooth® low energy v4.2 (*)	SMD type BLE Slave and Master	SPI I2S PDM	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified	12.9 x 9.6 x 2.0
		SMD type	SPI I2S PDM 30 GPIO UART I2C SPI	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash	
		SMD type BLE Slave and Master	SPI 12S PDM 30 GPIO UART 12C	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM	12.9 x 9.6 x 2.0
		SMD type BLE Slave and Master	SPI I2S PDM 30 GPIO UART I2C SPI	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash	12.9 x 9.6 x 2.0
		SMD type BLE Slave and Master	SPI I2S PDM 30 GPIO UART I2C SPI	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal	12.9 x 9.6 x 2.0
		SMD type BLE Slave and Master	SPI I2S PDM 30 GPIO UART I2C SPI	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified	12.9 x 9.6 x 2.0
(nRF51822) EYSGCNZWY		SMD type BLE Slave and Master	SPI 12S PDM 30 GPIO UART 12C SPI 29 GPIO	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0)	12.9 x 9.6 x 2.0
(nRF51822)	Bluetooth® low energy v4.2 (*)	BLE Slave and Master SMD type	SPI I2S PDM 30 GPIO UART I2C SPI 29 GPIO UART I2C	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna	12.9 x 9.6 x 2.0 12.9 x 9.6 x 2.0
(nRF51822) EYSGCNZWY	Bluetooth® low energy v4.2 (*)	BLE Slave and Master SMD type BLE Slave and Master	SPI 12S PDM 30 GPIO UART 12C SPI 29 GPIO	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash	12.9 x 9.6 x 2.0
(nRF51822) EYSGCNZWY	Bluetooth® low energy v4.2 (*)	BLE Slave and Master SMD type BLE Slave and Master	SPI I2S PDM 30 GPIO UART I2C SPI 29 GPIO UART I2C SPI	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal	12.9 x 9.6 x 2.0 12.9 x 9.6 x 2.0
(nRF51822) EYSGCNZWY	Bluetooth® low energy v4.2 (*)	BLE Slave and Master SMD type BLE Slave and Master	SPI I2S PDM 30 GPIO UART I2C SPI 29 GPIO UART I2C SPI	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32KB RAM 32KB Crystal FCC/IC/Japan certified	12.9 x 9.6 x 2.0 12.9 x 9.6 x 2.0 12.9 x 9.6 x 2.0
(nRF51822) EYSGCNZWY	Bluetooth® low energy v4.2 (*)	BLE Slave and Master SMD type BLE Slave and Master	SPI I2S PDM 30 GPIO UART I2C SPI 29 GPIO UART I2C SPI	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal	12.9 x 9.6 x 2.0 12.9 x 9.6 x 2.0
EYSGCNZWY (nRF51822)	Bluetooth® low energy v4.2 (*) Bluetooth® low energy v4.2 (*)	BLE Slave and Master SMD type BLE Slave and Master SMD type	SPI I2S PDM 30 GPIO UART I2C SPI 29 GPIO UART I2C SPI 29 GPIO	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available	12.9 x 9.6 x 2.0 12.9 x 9.6 x 2.0 12.9 x 9.6 x 2.0
EYSGCNZWY (nRF51822) EYSGCNZWY	Bluetooth® low energy v4.2 (*)	BLE Slave and Master SMD type BLE Slave and Master SMD type BLE Slave and Master	SPI I2S PDM 30 GPIO UART I2C SPI 29 GPIO UART I2C SPI	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0)	12.9 x 9.6 x 2.0 12.9 x 9.6 x 2.0 12.9 x 9.6 x 2.0
EYSGCNZWY (nRF51822)	Bluetooth® low energy v4.2 (*) Bluetooth® low energy v4.2 (*)	BLE Slave and Master SMD type BLE Slave and Master SMD type	SPI I2S PDM 30 GPIO UART I2C SPI 29 GPIO UART I2C SPI 29 GPIO	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available	12.9 x 9.6 x 2.0 12.9 x 9.6 x 2.0 12.9 x 9.6 x 2.0
EYSGCNZWY (nRF51822) EYSGCNZWY	Bluetooth® low energy v4.2 (*) Bluetooth® low energy v4.2 (*)	BLE Slave and Master SMD type BLE Slave and Master SMD type BLE Slave and Master SMD type	SPI I2S PDM 30 GPIO UART I2C SPI 29 GPIO UART I2C SPI 29 GPIO	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal FCC/IC/Japan certified FCC/IC/Japan certified	12.9 x 9.6 x 2.0
EYSGCNZWY (nRF51822) EYSGCNZWY	Bluetooth® low energy v4.2 (*) Bluetooth® low energy v4.2 (*)	BLE Slave and Master SMD type BLE Slave and Master SMD type BLE Slave and Master SMD type TAIYO YUDEN Software Embedded	SPI I2S PDM 30 GPIO UART I2C SPI 29 GPIO UART I2C SPI 29 GPIO	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal	12.9 x 9.6 x 2.0 12.9 x 9.6 x 2.0 12.9 x 9.6 x 2.0
EYSGCNZWY (nRF51822) EYSGCNZWY	Bluetooth® low energy v4.2 (*) Bluetooth® low energy v4.2 (*)	BLE Slave and Master SMD type BLE Slave and Master SMD type BLE Slave and Master SMD type TAIYO YUDEN Software Embedded	SPI I2S PDM 30 GPIO UART I2C SPI 29 GPIO UART I2C SPI 29 GPIO	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal FCC/IC/Japan certified FCC/IC/Japan certified	12.9 x 9.6 x 2.0
EYSGCNZWY (nRF51822) EYSGCNZWY	Bluetooth® low energy v4.2 (*) Bluetooth® low energy v4.2 (*)	BLE Slave and Master SMD type BLE Slave and Master SMD type BLE Slave and Master SMD type TAIYO YUDEN Software Embedded	SPI I2S PDM 30 GPIO UART I2C SPI 29 GPIO UART I2C SPI 29 GPIO	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal FCC/IC/Japan certified FCC/IC/Japan certified	12.9 x 9.6 x 2.0
EYSGCNZWY (nRF51822) EYSGCNZWY	Bluetooth® low energy v4.2 (*) Bluetooth® low energy v4.2 (*)	BLE Slave and Master SMD type BLE Slave and Master SMD type BLE Slave and Master SMD type TAIYO YUDEN Software Embedded	SPI I2S PDM 30 GPIO UART I2C SPI 29 GPIO UART I2C SPI 29 GPIO	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal FCC/IC/Japan certified FCC/IC/Japan certified	12.9 x 9.6 x 2.0
EYSGCNZWY (nRF51822) EYSGCNAWY-1X (nRF51822)	Bluetooth® low energy v4.2 (*) Bluetooth® low energy v4.2 (*) Bluetooth® low energy v4.1	BLE Slave and Master SMD type BLE Slave and Master SMD type BLE Slave and Master SMD type TAIYO YUDEN Software Embedded (Lite Version) BLE Slave and Master SMD type	SPI I2S PDM 30 GPIO UART I2C SPI 29 GPIO UART UART UART	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB Flash 32KB Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available	12.9 x 9.6 x 2.0
EYSGCNZWY (nRF51822) EYSGCNAWY-1X (nRF51822)	Bluetooth® low energy v4.2 (*) Bluetooth® low energy v4.2 (*) Bluetooth® low energy v4.1	BLE Slave and Master SMD type BLE Slave and Master SMD type BLE Slave and Master SMD type TAIYO YUDEN Software Embedded (Lite Version) BLE Slave and Master SMD type TAIYO YUDEN Software Embedded	SPI I2S PDM 30 GPIO UART I2C SPI 29 GPIO UART UART UART	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available	12.9 x 9.6 x 2.0
EYSGCNZWY (nRF51822) EYSGCNAWY-1X (nRF51822)	Bluetooth® low energy v4.2 (*) Bluetooth® low energy v4.2 (*) Bluetooth® low energy v4.1	BLE Slave and Master SMD type BLE Slave and Master SMD type BLE Slave and Master SMD type TAIYO YUDEN Software Embedded (Lite Version) BLE Slave and Master SMD type	SPI I2S PDM 30 GPIO UART I2C SPI 29 GPIO UART UART UART	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32KHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available	12.9 x 9.6 x 2.0
EYSGCNZWY (nRF51822) EYSGCNAWY-1X (nRF51822)	Bluetooth® low energy v4.2 (*) Bluetooth® low energy v4.2 (*) Bluetooth® low energy v4.1	BLE Slave and Master SMD type BLE Slave and Master SMD type BLE Slave and Master SMD type TAIYO YUDEN Software Embedded (Lite Version) BLE Slave and Master SMD type TAIYO YUDEN Software Embedded	SPI I2S PDM 30 GPIO UART I2C SPI 29 GPIO UART UART UART	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available	12.9 x 9.6 x 2.0 12.9 x 9.6 x 2.0
EYSGCNZWY (nRF51822) EYSGCNAWY-1X (nRF51822)	Bluetooth® low energy v4.2 (*) Bluetooth® low energy v4.2 (*) Bluetooth® low energy v4.1	BLE Slave and Master SMD type BLE Slave and Master SMD type BLE Slave and Master SMD type TAIYO YUDEN Software Embedded (Lite Version) BLE Slave and Master SMD type TAIYO YUDEN Software Embedded	SPI I2S PDM 30 GPIO UART I2C SPI 29 GPIO UART UART UART	512KB Flash 64KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 16KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32KHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available w/CPU (Cortex M0) Antenna 32kHz Crystal FCC/IC/Japan certified CE Conducted test report available	12.9 x 9.6 x 2.0

(*)Supported by S130

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Part number	Function	Module type	I/F	Feature	Outline [mm] (Height : Maximum)
EYAGJNZXX (nRF51422)	Bluetooth® low energy v4.2 & ANT	BLE Slave ANT SMD type	UART I2C SPI 14 GPIO	w/CPU (Cortex M0) Antenna 256KB Flash 32KB RAM FCC/IC/Japan certified CE Conducted test report available	11.3 x 5.1 x 1.3
■ <i>Bluetooth</i> ® Dual					
Part number EYSGCCAXX	Function Bluetooth® Legacy and BLE	Module type SMD type	I/F UART	Feature Integrated System Clock	Outline [mm] (Height : Maximum) 15.4 x 10.0 x 2.0
				Antenna FCC/IC/Japan certified CE Conducted test report available	
EYSGCCSXX	Bluetooth® Legacy and BLE	SMD type	USB	Integrated System Clock Antenna FCC/IC/Japan certified CE Conducted test report available	15.4 x 10.0 x 2.0
■CPU Embedded V	VLAN Module				
Part number	Function	Module type	I/F	Feature	Outline [mm] (Height : Maximum)
WYSACVLXY-XZ	IEEE802.11b/g/n	SMD type	UART SPI	Integrated System Clock Antenna Supprt Micro AP Supprt WiFi Direct FCC/IC/Japan certified CE Conducted test report available	21.4 x 14.0 x 2.4
WYSACVLXY-XX	IEEE802.11b/g/n	SMD type Original Software Embedded	UART SPI	Integrated System Clock Antenna Supprt Micro AP FCC/IC/Japan certified CE Conducted test report available	21.4 x 14.0 x 2.4

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Part number	Function	Module type	I/F	Feature	Outline [mm] (Height : Maximum)
WYSBHVGXG	IEEE802.11ac/a/b/g/n+Bluetooth® 4.2	SMD type	SDIO	Integrated System Clock	12.6 x 8.9 x 1.9
			РСМ	2.4GHz & 5GHz	
				11ac(HT80)	
WYSAGVDX7	IEEE802.11b/g/n	Connector type	SDIO	Integrated System Clock	20.0 x 11.0 x 2.15
				Antenna FCC/IC/Japan certified	
				1 CO/10/ Sapari Certified	
WYSAAVDXB	IEEE802.11 a/b/g/n+ <i>Bluetooth</i> ® 3.0	Connector type	SDIO	Integrated System Clock	30.0 x 15.0 x 2.45
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PCM	Dual Band Antenna	
				HT40	
				Japan certified	
					Shielding Case
					Shielding Case
WYSAAVDX7	IEEE802.11b/g/n	Connector type	SDIO	Integrated System Clock	35.0 x 15.0 x 2.9
				Antenna HT40	
				FCC/IC/Japan certified	
				·	Power Shielding Case Case
					Block Case
WYSBMVGXB	IEEE802.11 a/b/g/n+Bluetooth® 3.0	SMD type	SDIO	2.4GHz & 5GHz	13.1 x 6.1 x 1.35
			PCM	HT40	
110/04/01/01/0		0.45	0010		245 25
WYSAGVDXG	IEEE802.11ac/a/b/g/n+Bluetooth® 4.2	SMD type	SDIO PCM	Integrated System Clock 2.4GHz & 5GHz	24.0 x 11.5 x 2.0
			1 0	11ac(HT80)	
				Antenna	
				FCC/IC/Japan certified	
				CE Conducted test report available	
	•	•		•	
GNSS Module	T= .	l	1	_	I
Part number GYSFFMAXB	Function GPS Full Module	Module type SMD type	I/F UART	Feature TCXO	Outline [mm] (Height: Maximum) 10.8 x 10.0 x 2.05
GISTIMAND	NMEA Output	SIND type	OAKI	RTC	10.6 X 10.0 X 2.03
	·			LNA	
				SAW	
				On-chip Logger	l d H
GYSFFMAXC	GPS&GLONASS	SMD type	UART	TCXO	10.8 x 10.0 x 2.05
	Full Module			RTC	
	NMEA Output			LNA SAW	
				On-chip Logger	
				5p 255501	
CVCEDMAYD	CDS Full Madula	Commonton to	LIADT	Detah Antonna	22.2 v. 15.2 v. 6.0
GYSFDMAXB	GPS Full Module NMEA Output	Connector type	UART	Patch Antenna TCXO	23.2 x 15.3 x 6.9
	TIMES Output			RTC	
				LNA	
				SAW	
				On-chip Logger	0 -
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