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 2016. 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 specification.

- Please contact TAIYO YUDEN for further details of product specifications as the individual specification is 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). 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, 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, nuclear control equipment, undersea equipment, military 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.

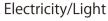
Please note that unless you obtain prior written consent of TAIYO YUDEN, TAIYO YUDEN shall not be in any way responsible for any damages incurred by you or third parties arising from use of the products listed in this catalog for any equipment requiring inquiry to TAIYO YUDEN or prohibited for use by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

- Please note that TAIYO YUDEN shall have no responsibility for any controversies or disputes that may occur in connection with a third party's intellectual property rights and other related rights arising from use of our products. TAIYO YUDEN grants no license for such rights.
- Please note that unless otherwise agreed in writing, 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.
- 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 & UWB Module

For Smartphone Peripheral & IoT Solution







Security/Access







Bluetooth® low energy Module

For Industrial Market

Handy Terminal / Mobile Printer









WLAN (+BT)
Original Antenna & Board to Board Connector

■ For IoT Solution & Industrial















GPS Full Module







Support for 2.4GHz or 5GHz Miniaturized BT+WLAN Module

*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.

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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■ Bluetooth® & Bluetooth® low energy Module

						Function	n							I/F			M	odule ty	ре		Type a	pproval	
Part number	BLE	ВТ	ANT+	NFC	802.11a	802.11b	802.11g	802.11n	802.11ac	GPS	GLONASS	UART	USB	PCI	128	oids	SMD	Connector	Antenna	Japan	FCC	OI	CE
EYSHJNZXZ	0		0*	0								0		0	0		0		0	0	0	0	0*
EYSGJNZXX	0											0		0	0		0		0	0	0	0	0*
EYSGJNZWY	0											0		0	0		0		0	0	0	0	0*
EYSGJNAWY-1X	0											0		0	0		0		0	0	0	0	0*
EYSGJNAWY-WX	0											0		0	0		0		0	0	0	0	0*
EYSHCNZXZ	0		0*	0								0		0	0		0		0	0	0	0	0*
EYSGCNZXX	0											0		0	0		0		0	0	0	0	0*
EYSGCNZWY	0											0		0	0		0		0	0	0	0	0*
EYSGCNAWY-1X	0											0		0	0		0		0	0	0	0	0*
EYSGCNAWY-WX	0											0		0	0		0		0	0	0	0	0*

*Softdevice S332

*CE Conducted test report available

■ Bluetooth® low energy & ANT Module

						Function	า							I/F			Me	odule ty	ре		Type a	pproval	
Part number	BLE	ВТ	ANT+	NFC	802.11a	802.11b	802.11g	802.11n	802.11ac	GPS	GLONASS	UART	USB	PCI	12.8	SDIO	SMD	Connector	Antenna	Japan	FCC	IC	CE
EYAGJNZXX	0		0									0		0	0		0		0	0	0	0	0*

*CE Conducted test report available

CPI I Embedded WI AN Module

	Function													I/F			Me	odule ty	ре		Type a	pproval	
Part number	BLE	ВТ	ANT+	NFC	802.11a	802.11b	802.11g	802.11n	802.11ac	GPS	GLONASS	UART	USB	PCI	128	SDIO	SMD	Connector	Antenna	Japan	FCC	IC	CE
WYSACVLXY-XZ						0	0	0				0					0		0	0	0	0	0*
WYSACVLXY-XX						0	0	0				0					0		0	0	0	0	0*
WYSAAVKXY-XZ-I						0	0	0				0	0				0		0	0	0	0	
WYSAAVKXY-XX-I			_	_	-	0	0	0			_	0	_	_			0	_	0	0	0	0	

*CE Conducted test report available

WLAN or WLAN+BT Module

						Functio	n							I/F			Me	odule ty	ре		Type a	pproval	
Part number	BLE	ВТ	ANT+	NFC	802.11a	802.11b	802.11g	802.11n	802.11ac	GPS	GLONASS	UART	USB	PCI	12.8	OIGS	SMD	Connector	Antenna	Japan	FCC	OI	CE
WYSBHVGXG	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			
WYSAAVDX7						0	0	0								0	0		0	0	0	0	
WYSBCVGXA		0				0	0	0								0	0						
WYSBCVGX7						0	0	0								0	0						
WYSBMVGXB		0			0	0	0	0								0	0						
WYSBMVGX4						0	0	0								0	0						

*CE Conducted test report available

■GNSS Module

					F	Function	า							I/F			М	odule ty	ре		Type a	pproval	
Part number	BLE	ВТ	ANT+	NFC	802.11a	802.11b	802.11g	802.11n	802.11ac	GPS	GLONASS	UART	USB	PCI	128	SDIO	SMD	Connector	Antenna	Japan	FCC	IC	CE
GYSFFMAXB										0		0					0						
GYSFFMAXC										0	0	0					0						
GYSFDMAXB			_		-	_	_	_	_	0	_	0		_				0	0				

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Part number	etooth® low energy Module				
	Function	Module type	I/F	Feature (O.). MAT	Outline [mm] (Height : Maximum)
EYSHJNZXZ	Bluetooth® low energy	BLE Slave or Master	UART	w/CPU (Cortex M4F)	11.3 x 5.1 x 1.3
(nRF52832)	& NFC-A Type-2	NFC-A Type-2	I2C	Antenna	T' 'n fi
		SMD type	SPI I2S	512KB Flash 64KB RAM	
			PDM	FCC/IC/Japan certified	
			15 GPIO	CE Conducted test report available	
			13 GFIO	OL Conducted test report available	
EYSGJNZXX	Bluetooth® low energy	BLE Slave or Master	UART	w/CPU (Cortex M0)	11.3 x 5.1 x 1.3
(nRF51822)		SMD type	I2C	Antenna	
			SPI	256KB Flash	E']n [
			14 GPIO	16KB RAM	5" 11
				FCC/IC/Japan certified	
				CE Conducted test report available	
EYSGJNZWY	Bluetooth® low energy	BLE Slave or Master	UART	w/CPU (Cortex M0)	11.3 x 5.1 x 1.3
(nRF51822)		SMD type	I2C	Antenna	Tr' in M
			SPI	256KB Flash	
			14 GPIO	32KB RAM	
				FCC/IC/Japan certified	
				CE Conducted test report available	
EYSGJNAWY-1X	Physics at h @ law an army	BLE Slave or Master	UART	w/CPU (Cortex M0)	11.3 x 5.1 x 1.3
(nRF51822)	Bluetooth® low energy	SMD type	JART	Antenna	11.0 × 0.1 × 1.0
J.OLL /		Original Software Embedded		FCC/IC/Japan certified	E' la M
		(limited edition)		CE Conducted test report available	다 남
					LL
EYSGJNAWY-WX (nRF51822)	Bluetooth® low energy	BLE Slave or Master	UART	w/CPU (Cortex M0)	11.3 x 5.1 x 1.3
(IIRFUIÖZZ)		SMD type Original Software Embedded		Antenna FCC/IC/Japan certified	E' la M
		(Full Version)		CE Conducted test report available	
		(Tull Version)		OL Oblidacted test report available	
					LL-, 1
EYSHCNZXZ	Bluetooth® low energy	BLE Slave or Master	UART	w/CPU (Cortex M4F)	12.9 x 9.6 x 2.0
(nRF52832)	& NFC-A Type-2	NFC-A Type-2	I2C	Antenna	
		SMD type	SPI	512KB Flash	FI FI
			I2S	64KB RAM	
			PDM	32kHz Crystal	3
			30 GPIO	FCC/IC/Japan certified	
				CE Conducted test report available	
EYSGCNZXX	Bluetooth® low energy	BLE Slave or Master	UART	w/CPU (Cortex M0)	12.9 × 9.6 × 2.0
(nRF51822)		SMD type	I2C	Antenna	
			SPI	256KB Flash	Pac Al A
			29 GPIO	16KB RAM	
				32kHz Crystal	
				FCC/IC/Japan certified	
				CE Conducted test report available	
EVECONIZAN	District & Co.	DI E CI	LIADT	/ODIL (O NO)	100,000,00
EYSGCNZWY (nRF51822)	Bluetooth® low energy	BLE Slave or Master SMD type	UART I2C	w/CPU (Cortex M0) Antenna	12.9 × 9.6 × 2.0
(IIIII J 1022)		омы туре	SPI	256KB Flash	
			29 GPIO	32KB RAM	
			20 GI-10	32kHz Crystal	
				FCC/IC/Japan certified	
				CE Conducted test report available	
			<u></u>		
EYSGCNAWY-1X	Bluetooth® low energy	BLE Slave or Master	UART	w/CPU (Cortex M0)	12.9 x 9.6 x 2.0
(nRF51822)		SMD type		Antenna	
		Original Software Embedded		32kHz Crystal	
		(limited edition)		FCC/IC/Japan certified	
				CE Conducted test report available	
	Bluetooth® low energy	BLE Slave or Master	UART	w/CPU (Cortex M0)	12.9 x 9.6 x 2.0
EYSGCNAWY-WX	1	SMD type		Antenna	
EYSGCNAWY-WX (nRF51822)			1	32kHz Crystal	Fiat H H
		Original Software Embedded			1 -44- 1-0
		Original Software Embedded (Full Version)		FCC/IC/Japan certified	
				FCC/IC/Japan certified CE Conducted test report available	

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■ Bluetooth® low e	nergy & ANT Module				
Part number	Function	Module type	I/F	Feature	Outline [mm] (Height : Maximum)
EYAGJNZXX	Bluetooth® low energy	BLE Slave	UART	w/CPU (Cortex M0)	11.3 x 5.1 x 1.3
(nRF51422)	& ANT	ANT	I2C	Antenna	
		SMD type	SPI	256KB Flash	T 1 fil
			14 GPIO	32KB RAM	
				FCC/IC/Japan certified	
				CE Conducted test report available	
			l		

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 21.4mm 21.4mm
vysacvlxy-xx	IEEE802.11b/g/n	SMD type	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 <
/ysaavkxy-xz-i	IEEE802.11b/g/n	SMD type	UART USB SPI	Integrated System Clock Antenna Supprt Micro AP Supprt WiFi Direct FCC/IC/Japan certified	32.0 x 17.8 x 2.6
iysaavkxy-xx-i	IEEE802.11b/g/n	SMD type Original Software Embedded	UART	Integrated System Clock Antenna Supprt Micro AP FCC/IC/Japan certified	32.0 x 17.8 x 2.6

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Part number	Function	Module type	I/F	Feature	Outline [mm] (Height : Maximum)
WYSBHVGXG	IEEE802.11ac/a/b/g/n+ <i>Bluetooth</i> © 4	2 SMD type	SDIO PCM	Integrated System Clock 2.4GHz & 5GHz 11ac(HT80)	12.6x8.9x1.9
WYSAGVDX7	IEEE802.11b/g/n	Connector type	SDIO	Integrated System Clock Antenna FCC/IC/Japan certified	20 x 11 x 2.15
WYSAAVDXB	IEEE802.11 a/b/g/n+ <i>Bluetooth</i> ® 3.0	Connector type	SDIO PCM	Integrated System Clock Dual Band Antenna HT40 Japan certified	30 x 15x 2.45 30.0 Dail Band AVII
WYSAAVDX7	IEEE802.11b/g/n	Connector type	SDIO	Integrated System Clock Antenna HT40 FCC/IC/Japan certified	35 x 15 x 2.9 35.0 Power Block Case 87 × 15 x 2.9
WYSBCVGXA	IEEE802.11 b/g/n+B/uetooth® 3.0	SMD type	SDIO PCM	Integrated System Clock HT40	9.0 x 8.8 x 1.35
WYSBCVGX7	IEEE802.11b/g/n	SMD type	SDIO	Integrated System Clock HT40	9.0 x 8.8 x 1.35
WYSBMVGXB	IEEE802.11 b/g/n+ <i>Bluetooth</i> ® 3.0	SMD type	SDIO PCM	2.4GHz & 5GHz HT40	13.1 x 6.1 x 1.35
WYSBMVGX4	IEEE 802.11a/b/g/n	SMD type	SDIO	2.4GHz & 5GHz HT40	13.1 x 6.1 x 1.35

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Part number	Function	Module type	I/F	Feature	Outline [mm] (Height: Maximum)
GYSFFMAXB	GPS Full Module NMEA Output	SMD type	UART	TCXO RTC LNA SAW On-chip Logger	10.8 x 10.0 x 2.05
GYSFFMAXC	GPS&GLONASS Full Module NMEA Output	SMD type	UART	TCXO RTC LNA SAW On-chip Logger	10.8 x 10.0 x 2.05
GYSFDMAXB	GPS Full Module NMEA Output	Connector type	UART	Patch Antenna TCXO RTC LNA SAW On-chip Logger	23.2 x 15.3 x 6.9

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