

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 2011. 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 usage of the Products.

Please note that Taiyo Yuden Co., Ltd. shall not be responsible for any defects in products or equipment incorporating such products, which are caused under the conditions other than those specified in this catalog or individual specification.

- Please contact Taiyo Yuden Co., Ltd. for further details of product specifications as the individual specification is available.
- Please conduct validation and verification of products in actual condition of mounting and operating environment before commercial shipment of the equipment.
- All electronic components or functional modules listed in this catalog are developed, designed and intended for use in general electronics equipment.(for AV, office automation, household, office supply, information service, telecommunications, (such as mobile phone or PC) etc.). Before incorporating the components or devices into any equipment in the field such as transportation,(automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network (telephone exchange, base station) etc. which may have direct influence to harm or injure a human body, please contact Taiyo Yuden Co., Ltd. for more detail in advance. Do not incorporate the products into any equipment in fields such as aerospace, aviation, nuclear control, submarine system, military, etc. where higher safety and reliability are especially required.

In addition, even electronic components or functional modules that are used for the general electronic equipment, if the equipment or the electric circuit require high safety or reliability function or performances, a sufficient reliability evaluation check for safety shall be performed before commercial shipment and moreover, due consideration to install a protective circuit is strongly recommended at customer's design stage.

- The contents of this catalog are applicable to the products which are purchased from our sales offices or distributors (so called "TAIYO YUDEN' s official sales channel").
It is only applicable to the products purchased from any of TAIYO YUDEN' s official sales channel.
- Please note that Taiyo Yuden Co., Ltd. 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 your usage of products in this catalog. Taiyo Yuden Co., Ltd. grants no license for such rights.

- Caution for export
Certain items in this catalog may require specific procedures for export according to "Foreign Exchange and Foreign Trade Control Law" of Japan, "U.S. Export Administration Regulations", and other applicable regulations. Should you have any question or inquiry on this matter, please contact our sales staff.



The Wireless technology connects you with the applications used everywhere around us wirelessly. Taiyo Yuden offers you the one-stop solution to meet all the requirements.

For the latest information on Taiyo-Yuden's Wireless module, please visit our web site at <http://www.ty-top.com/>

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■ For Mobile



Ultra Miniaturized WLAN+BT+FM Module

■ For PC and Enterprise



BT
Original Antenna or RF Connector
& Board to Board Connector



BT
Original Antenna &
Wire Type Connector



WLAN Original Antenna & Board to Board Connector

■ For Digital Consumer



Miniaturized WLAN,
BT+WLAN Module



Support for 5GHz
Miniaturized BT+WLAN Module



Miniaturized
BT Full Module



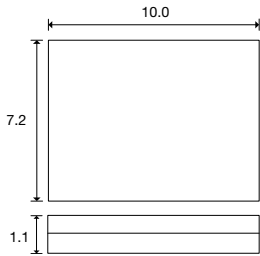
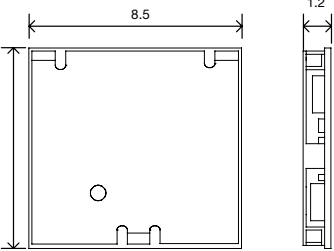
GPS Full Module
With ANTENNA

※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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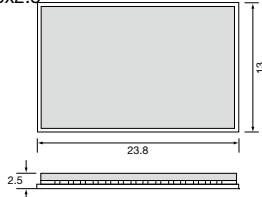
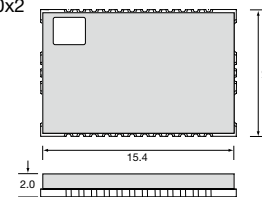
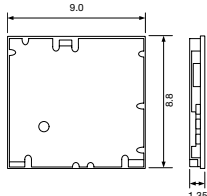
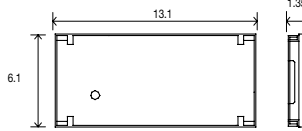
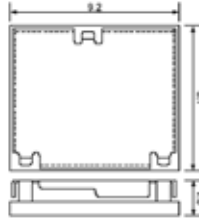
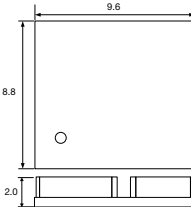
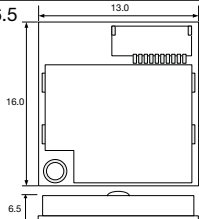
Part Number	Function	Module Type	I/F	Feature	Outline [mm] (Height : Max Number)
WYSDSBHXC	IEEE802.11a/b/g/n Bluetooth® Ver.2.1+EDR FM (Tx/Rx)	SMD Type	SDIO UART I2C PCM I2S	Bluetooth® Class2 w/o X'tal w/ EEPROM w/ Saw	10.0x7.2x1.1 
WYSBMVGX8	IEEE802.11b/g/n Bluetooth® Ver.2.1+EDR FM (Tx/Rx)	SMD Type	SDIO UART PCM I2S	Bluetooth® Class2 & 1 w/o X'tal w/ EEPROM w/ Saw	8.5x8.0x1.2 

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Part Number	Function	Module Type	I/F	Feature	Outline [mm] (Height : Max Number)
EYSF*C*XX	Bluetooth® Ver.2.1+EDR	Flash Memory & Connector Type	USB UART PCM	Bluetooth® Class2 w/ X'tal w/ Antenna (EYSFDC*XX) or RF Connector (EYSFCC*XX)	<p>31x15x3 EYSFDC*XX</p> <p>EYSFCC*XX</p>
EYSNJCSXX	Bluetooth® Ver.2.1+EDR	Mask ROM & Connector Type	USB	Bluetooth® Class2 w/ EEPROM w/ X'tal w/ Antenna	<p>30.0x7.0x3.0</p>
WYSAAVDX7	IEEE802.11b/g/n	Connector Type	SDIO	w/ X'tal w/ EEPROM w/ Antenna	<p>35x15x2.9</p>

FUNCTIONAL MODULES

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Part Number	Function	Module Type	I/F	Feature	Outline [mm] (Height : Max Number)
EYSF1C*XX	Bluetooth® Ver.2.1+EDR	Flash Memory & SMD Type	USB UART PCM	Bluetooth® Class1 w/ X'tal	23.8x13x2.5 
EYSF3C*XX	Bluetooth® Ver.2.1+EDR	Flash Memory & SMD Type	USB UART PCM	Bluetooth® Class2 w/ X'tal	15.4x10x2 
WYSBCVGXA	IEEE802.11b/g/n Bluetooth® Ver.2.1 + EDR (Ver.3.0 + HS)	SMD Type	SDIO UART PCM	Bluetooth® Class2 & 1 w/ EEPROM w/ X'tal	9.0x8.8x1.35 
WYSBMVGXB	IEEE802.11a/b/g/n Bluetooth® Ver.2.1 + EDR (Ver.3.0 + HS)	SMD Type	SDIO UART PCM	Bluetooth® Class2 & 1 w/ EEPROM w/o X'tal	13.1x6.1x1.35 
EYSMAC*XX	Bluetooth® Ver.2.1+EDR	Mask ROM SMD Type	USB UART PCM	Bluetooth® Class2 w/ EEPROM w/ X'tal	8.1x9.2x1.6 
GYSFFMAXA	NMEA Output	Flash Memory & SMD Type	UART	w/ TCXO w/ RTC w/ LNA w/ Saw	9.6x8.8x2.0 
GYSFDMAXA	NMEA Output	Flash Memory & Connector Type	UART	w/ TCXO w/ RTC w/ LNA w/ Saw w/ Patch ANTENNA	16.0x13.0x6.5 

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