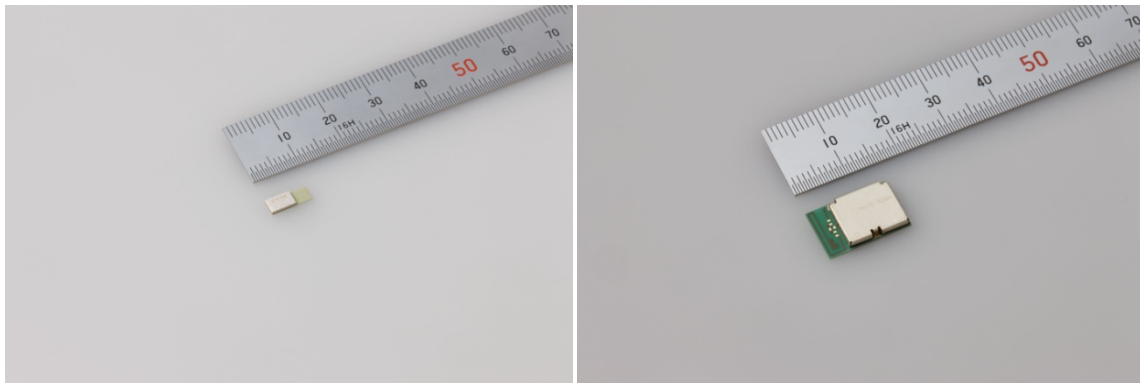


For Immediate Release

TAIYO YUDEN Expands Its Product Lineup of *Bluetooth*[®] 5 Wireless Communication Modules

Able to meet the requirements of a wide range of IoT-related devices, including wearable devices



EYSLSNZWW

EYSKBNZWB

TOKYO, September 13, 2018—TAIYO YUDEN CO., LTD. announced today the launch of the new *Bluetooth*[®]*1 5 compatible wireless communication modules, EYSKBNZWB (15.4×10.0×2.0 mm) and EYSLSNZWW (3.25×8.55×1.0 mm). These products are ideal for IoT-related devices, including wearable devices, healthcare equipment, and logistics terminals, which are required to be smaller and thinner.

The newly-developed EYSKBNZWB module can support the long-range capability, which has been newly added to the *Bluetooth*[®] 5 standard. This capability will improve the connectivity of wireless communication over a long distance or in an environment in which it is hard to receive radio waves, allowing you to extend the effective communication distance.

The EYSLSNZWW module utilizes our unique shield mold technology, realizing an almost 90% reduction in volume compared with our conventional module, EYSLCNZWW (9.6×12.9×2.0 mm).

TAIYO YUDEN TECHNO SOLUTIONS CO., LTD. (Takasaki City, Gunma Prefecture, Japan) will commence mass production of these products in September 2018. A sample of each model will cost 3,000 yen *2.

Technology Background

IoT-related devices are required to be operable in sensor networks everywhere and to have an extremely low power consumption. In addition, such devices will be used in a wide variety of applications, sizes, and environments, which in turn requires the embedded wireless modules to be available in a wide range of lineup. Most of those devices use *Bluetooth*[®] as the low-power consumption wireless communication standard. Building on the low-power consumption of *Bluetooth*[®] V4.2, the latest version standard, *Bluetooth*[®] 5, is equipped with new capabilities for supporting various needs, such as a two-fold increase in communication speed or up to a four-fold increase in communication range.

TAIYO YUDEN has successfully commercialized *Bluetooth*[®] 5 compatible wireless communication modules. Today, we announced the launch of the new communication modules, EYSKBNZWB and EYSLSNZWW. This will expand our product lineup in size and capability, which allows us to propose the most suitable wireless communication modules for the devices you are developing.

TAIYO YUDEN will continue to meet market needs and enhance its product lineup by increasing functionality and reliability.

*1 The *Bluetooth*[®] word mark and logos are owned by Bluetooth SIG, Inc. and the use of such marks by TAIYO YUDEN CO., LTD. is under license.

*2 The sample price mentioned in this release is our direct sales price. When considering purchasing via a sales agency, please contact the agency for the sample price.

■Applications

Wireless communication modules for IoT-related devices, including wearable devices, healthcare equipment, and logistics terminals, which are required to be smaller and thinner.

■The characteristics of the new *Bluetooth*[®] 5 wireless communication modules are as shown below.

Part Number	Size (L×W×H)	RAM (kB)	Specification	I/F	Certification	Temperature	New Item
EYSKBNZWB	15.4×10.0×2.0 mm	256	V5.0 BLE Single 2M bps/ Long range	UART SPI I ² C PDM I2S USB	Japan U.S.A. Canada CE*	-40 to +85°C	★
EYSHCNZWW	9.6×12.9×2.0 mm	64	V5.0 BLE Single 2M bps	UART SPI I ² C PDM I2S			
EYSHJNZWW	5.1×11.3×1.3 mm						
EYSHSNZWW	3.25×8.55×0.85 mm						
EYSLCNZWW	9.6×12.9×2.0 mm	24		UART SPI I ² C PDM			
EYSLSNZWW	3.25×8.55×1.00 mm						★

* The ETSI EN 300 328 v2.1.1 test report can be provided.