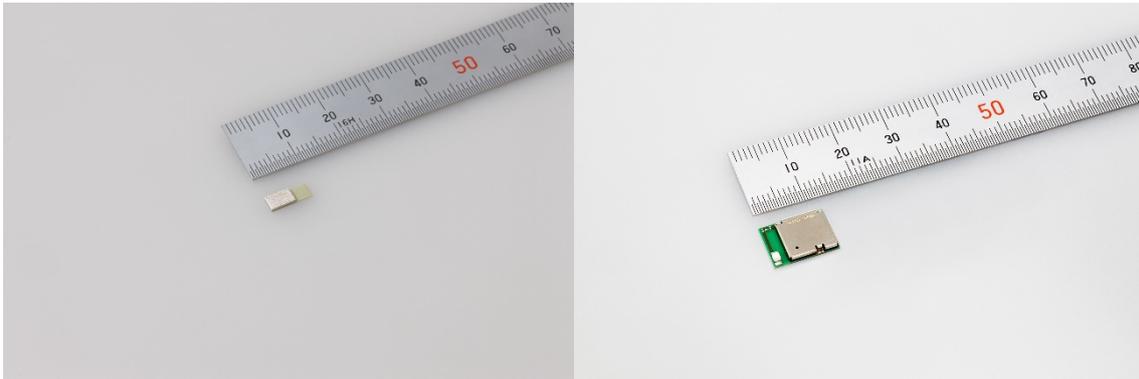


For immediate release

## TAIYO YUDEN Expands Its Product Lineup of Bluetooth® 5 Compatible Wireless Communications Modules

*Direction-Finding Function Enables Users to Grasp Location Information in Indoor Facilities such as Warehouses*



TOKYO, May 11, 2020—TAIYO YUDEN CO., LTD., announced today the launch of wireless communications modules EYSNCNZWW (9.6x12.9x2.0 mm) and EYSNSNZWW (3.25x8.55x1.00 mm). Both are compatible with Core Specification version 5.2, which is the latest version of Bluetooth®\*1 5.

These products support a direction-finding function that enables users to grasp location information, and are most suitable for IoT-related devices that are required to be small and thin, such as wearable devices, healthcare equipment, and handheld devices for logistics.

Mass production of the products will commence in May 2020, with a sample price of 3,000 yen per module.\*2

### Technology Background

IoT-related devices, such as wearable devices, are very small and therefore use a small-capacity battery which necessitates that the device have extremely low power consumption. Most such devices use Bluetooth® technology, which is a wireless communications standard with low power consumption. The latest Bluetooth® Core Specification version 5.2 not only provides improved transmission speed and expanded communication range, but also supports new features such as a sophisticated direction-finding function, while retaining the low power consumption of previous versions.

We have now successfully commercialized two new Bluetooth® compatible wireless communications modules, EYSNCNZWW and EYSNSNZWW, which support the direction-finding function. These products allow the devices to indicate the location information of people and things in indoor facilities such as warehouses and offices, which was previously not possible.

TAIYO YUDEN will continue to develop more multifunctional and reliable products to expand our product lineup in response to market needs.

\*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 communications modules for IoT-related devices that are required to be small and thin, such as wearable devices, healthcare equipment, and handheld devices for logistics

### ■Characteristics

Part Number	Size (L×W×H) [mm]	RAM [kB]	Specification	I/F	Certification	Temperature [°C]
EYSNCNZWW	9.6x12.9x2.0	24	V5.2 BLE Single 2Mbps Long Range Direction Finding	UART SPI I2C PDM	Japan U.S.A. Canada CE*3	-40~ +85
EYSNSNZWW	3.25x8.55x1.00					

\*3. The ETSI EN 300 328 v2.2.2 test report can be provided.