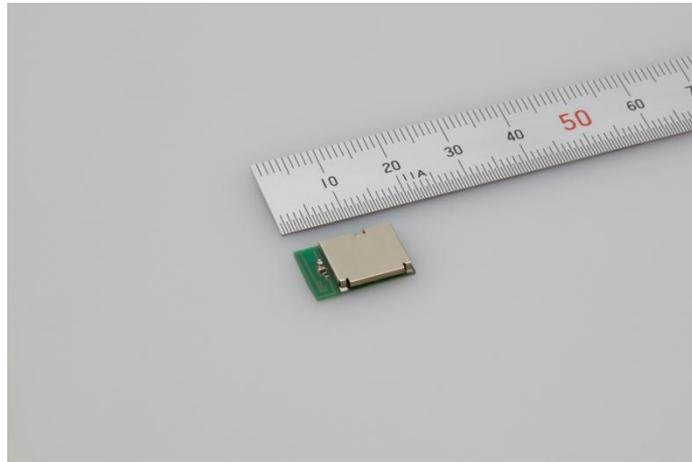


For Immediate Release

TAIYO YUDEN to commercialize *Bluetooth*® v4.1 dual-mode modules

Integration into a single module to reduce the size by 67%



TOKYO, September 28, 2016—TAIYO YUDEN CO., LTD. announces that it will commercialize EYSGCCAXX and EYSGCCSXX *Bluetooth*®*1 v4.1 (*Bluetooth*® low energy) dual-mode modules. Both products measure 15.4 × 10.0 × 2.0 mm.

These products are optimally designed for small and thin equipment including wearable devices, healthcare equipment, IoT devices, and industrial equipment (e.g. hand-held barcode scanners and mobile printers for printing scanned data).

TAIYO YUDEN has commercialized various *Bluetooth*® modules (including small modules and those incorporating TAIYO YUDEN's original software) to meet various needs of customers. The mounting area of EYSGCCAXX and EYSGCCSXX is about one third of that of EYSFDCAXX and EYSFDCSXX (both measuring 31.0 × 15.0 × 3.0 mm).

TAIYO YUDEN will start offering samples in October 2016. TAIYO YUDEN TECHNO SOLUTIONS CO., LTD. (Takasaki City, Gunma Prefecture), a TAIYO YUDEN subsidiary, will start mass production in December 2016. A sample of each model will cost 3,000 yen*2.

Technology Background

Most devices that require short-range wireless communication (e.g. wearable devices, healthcare equipment, industrial equipment) are compatible with the *Bluetooth*® wireless communication standard. Notably, *Bluetooth*® low energy (which has been added from *Bluetooth*® v4.0 or later) has drawn public attention due to its low power consumption compared with the conventional *Bluetooth*® versions (but note that it is not compatible with conventional *Bluetooth*® versions (v3.0 or earlier)). There has been demand for modules that can communicate with both conventional *Bluetooth*® versions and *Bluetooth*® low energy.

Against this backdrop, TAIYO YUDEN has added EYSGCCAXX and EYSGCCSXX *Bluetooth*® v4.1 dual-mode modules to its product lineup. These products are characterized by their small mounting area (about one third of that of conventional products) and ability to communicate with both conventional *Bluetooth*® versions and *Bluetooth*® low energy.

TAIYO YUDEN will continue to meet market needs and enhance its product lineup by

increasing product reliability, reducing product size/thickness, and incorporating software, etc.

*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 various types of small and thin equipment including wearable devices, healthcare equipment, IoT devices, and industrial equipment

The characteristics of the new Bluetooth® v4.1 dual-mode modules are as shown below.

Part Number	Size (L×W×H)	Specification	I/F	RAM (kB)	Certification	Feature	Temperature
EYSGCCAXX	15.4×10.0×2.0mm	v4.1 <i>Bluetooth</i> ® dual-mode	UART SPI	56	Japan FCC IC	X'tal Antenna	-30 to +85°C
EYSGCCSXX			USB SPI				