

Jan 25, 2018

Magellan Systems Japan, Inc.

Magellan Systems Japan, Inc. allocated new shares to Toyota Tsusho Corporation, and so on through Third-Party Allotment. Getting more acceleration of selling products related Global Satellite Positioning Technologies to the global market.

Magellan Systems Japan, Inc. (Headquarter : Amagasaki, Hyogo, CEO: Nobuhiro Kishimoto) allocated new shares which total amount is 600 million yen to Toyota Tsusho Corporation (Headquarter : Nagoya, Aichi, CEO: Jun Karube,) and 2 companies through Third-Party Allotment. Furthermore, Magellan Systems Japan, Inc. signed a Distributor Agreement with Toyota Tsusho Corporation to accelerate sales of products and so on related Global Satellite Positioning Technologies to the global market.

■ Overview of investors

- “Toyota Tsusho Corporation” and 2 companies.

■ Background of the financing

Magellan Systems Japan, Inc. (“MSJ”) has run some businesses as “R&D-oriented enterprises”, promoting the development and dissemination of more accurate position information and time calculation technologies for years. This Third-Party Allotment is implemented to our existing business partners and aimed to build a long-term development and stronger partnership and create multifaceted business synergies through collaboration. At present, MSJ accomplished a development of centimeter class receiver utilizing with the QZSS signals (Quasi-Zenith Satellite System, purposely forming full constellation round 2018). And MSJ further proceeds with a work of small form factor (highly integrated) of the QZSS receiver in order to aim at rapid dissemination in the future. The gained fund through this Third-Party Allotment will be applied toward a development of small form factor to aim at further acceleration of it. Because of such a small form factor, the cost, size, power consumption etc. will be significantly reduced. So far most of high precision satellite positioning technologies have been mainly used for industrial applications, however that will be highly expected to apply on to consumer applications and will be utilized as key technologies for ADAS (*1) and V2X (*2). In addition, MSJ will promote to detect and eliminate signal interference, spoofing (*3), and meaconing (*4) from the entire satellite positioning system, those are required for ensuring reliability of a position information.

* 1 . ADAS: Advanced Driver Assistance System

* 2 . V2X : Vehicle to X

* 3 . spoofing : Broadcast of fake navigation signals

* 4 . meaconing : Interception and rebroadcast of navigation signals

■ Purpose of signing a Distributor Agreement

MSJ has sold our products, licensed our technologies out and so on, to many companies not only in Japan but also in the world. Now, MSJ’s Global Satellite Positioning Technologies is getting more important in the global market against the background of

trend of autonomous operation and IoT of agricultural machinery, construction machinery, automobile, drone, etc. Under the situation, MSJ signed a Distributor Agreement with Toyota Tsusho Corporation aiming to more aggressive expansion of business and flexible customer services, so that, MSJ can expect further collaboration utilizing global network which Toyota Tsusho Corporation possess such as the Toyota Group and widespread participation in large-scale projects led by the government.

■ Achievements so far

MSJ has developed the L1 Multi GNSS RTK receiver which enables low-cost, high precision satellite positioning by using our proprietary technology for carrier phase positioning technology (*5) which has been used mostly surveying applications. In addition, MSJ has developed an advanced and sophisticated coupling system (high precision GNSS inertial navigation system) with the L1 Multi GNSS RTK receiver and proprietary IMU (*6) for autonomous operation of tractors and other agricultural machinery, construction machinery, automobile, drone, etc. This high precision GNSS inertial navigation system won the Grand Prix at the social innovation division of CEATEC AWARD 2015 (*7). Furthermore, some centimeter class receivers utilizing with the QZSS signals which finished development, won the Minister of Internal Affairs and Communications Award of CEATEC AWARD 2017 (*8).

* 5 . A method of positioning the distance from the receiver to the satellite by counting number cycles of the carrier and the phase difference

* 6 . Inertial Measurement Unit

* 7 . http://www.ceatec.com/2015/en/award/award01_02.html#awSocial

* 8 . http://www.ceatec.com/en/award/award01_01.html#internalAffairs

In order to guarantee more safely and more securely society in the near future by which everything is tightly connected, both accurate position and timing information become more important.

In order to satisfy these social requirements, MSJ will work hard to utilize unique satellite positioning technologies and products, in more countries, regions, and diversified business areas to spread as public infrastructures.

■ Company Profile

Company name	Magellan Systems Japan, Inc.
CEO	Nobuhiro Kishimoto
Established	July 6, 1993 (Founded : February 3, 1987)
Stated Capital	863.65 million yen
Headquarters	Amagasaki Research Incubation Center, #315 7-1-3, Doicho, Amagasaki, Hyogo, 660-0083, JAPAN

■ Overview of products

Multi-frequency Multi-GNSS Solution	http://www.magellan.jp/english/item/index6.html
High Precision GNSS RTK Solution	http://www.magellan.jp/english/item/index1.html
GNSS Inertial Measurement System	http://www.magellan.jp/english/item/index3.html
Super High Sensitivity GPS Timing Solution	http://www.magellan.jp/english/item/index2.html