

January 21, 2022  
CORE CORPORATION

## NEWS RELEASE

### CORE and Septentrio Releasing CLAS-Compatible GNSS Module "mosaic-CLAS" on Feb. 18, 2022.

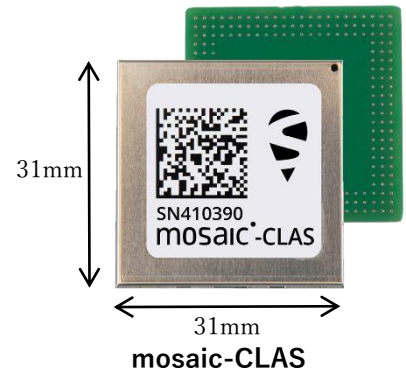
#### High-Precision Positioning using QZSS will promote Automation and Work Efficiency further

For promoting global use of Japan's Quasi-Zenith Satellite System (QZSS) in the actual environment, CORE CORPORATION. ("CORE") (President/CEO: Masanobu Matsunami, HQ: Setagaya-ku, Tokyo) and Septentrio N.V. ("Septentrio") jointly developed CLAS\* Compatible Centimeter-Accurate Positioning GNSS\*\* Module "mosaic-CLAS" based on CORE's high-precision positioning technology "Cohac<sup>∞</sup>."

\* CLAS Centimeter Level Augmentation Service

\*\* GNSS Global Navigation Satellite System

WEBSITES: Cohac<sup>∞</sup> <https://www.gnss.jp>  
Septentrio <https://www.septentrio.com>



## 1. mosaic-CLAS

To widely promote the use of QZSS CLAS in the actual environment, we have developed "mosaic-CLAS" as a single module product, which is low-priced, compact, and realizes low power consumption that is optimal for embedded use.

BENEFITS	CLAS Compatible	Low Price	approx. 3cm	Embedded
APPLICATIONS	Auto. Driving	Construction	Agriculture	Drones and more

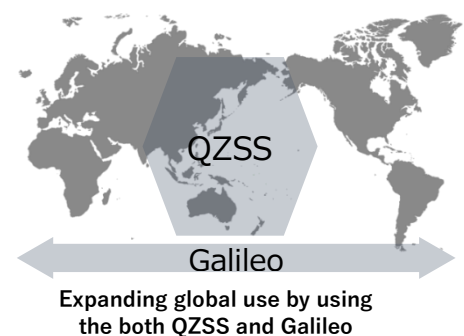
As leading companies in the field of GNSS in Japan and Europe, CORE and Septentrio, through technical cooperation, have been working to promote the use of QZSS CLAS in the actual environment. For further promotion of commercial use and embedded use of QZSS CLAS, the two companies jointly developed "mosaic-CLAS," a low price, small, high performance, and low power consumption single-module that is suitable for embedded use in a wide range of fields, including autonomous driving, construction, agriculture, and drones.



## 2. Septentrio's Message

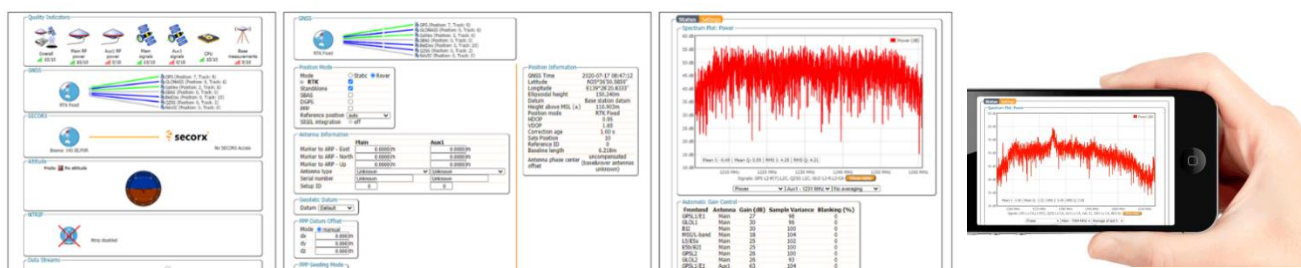
"We are delighted that our product now offers PPP/RTK high-accuracy positioning thanks to CLAS support. This feature brings precise positioning to many Japanese industrial applications, enabling automation and improving work efficiency."

Francois Freulon  
Head of Product Management of Septentrio



## 3. Features

- Achieves "CLAS Positioning" with a small single module. High precision positioning of centimeter accuracy with a single module alone (Unlike RTK method, no base station is required.).
- Output rate up to 100 Hz.
- Supports multi-constellation and multi-frequency.
- Advanced Anti-Jamming, Anti-Spoofing functions based on AIM + Technology and GNSS + Algorithm.  
【Septentrio Technology】 <https://www.septentrio.com/en/company/septentrio-gnss-technology>
- Small in size and power consumption, ideal for incorporation into products, etc.
- Intuitive web user interface (also available in remote environments)



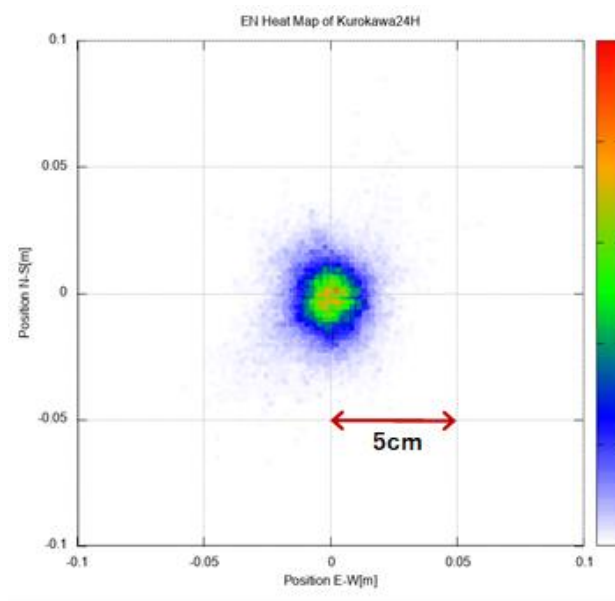
Intuitive Web User Interface

## 4. Specifications

<b>Positioning Modes</b>	CLAS, RTK, DGNSS	<b>Certification</b>	CE, RoHS, WEEE
<b>Satellite Systems</b>	GPS, Galileo, GLONASS, BeiDou, QZSS, Navic, SBAS	<b>Operating Temperature</b>	-40° C to +85° C
<b>Positioning Rate</b>	100Hz	<b>Storage Temperature</b>	-55° C to +85° C
<b>Size</b>	31 x 31 x 4 mm	<b>Power Consumption</b>	0.6W (Typ) / 1.1W (MAX)
		<b>Weight</b>	6.8 g

### 【 Measured Value 】

<b>Method</b>	CLAS
<b>Condition</b>	static
<b>Output Rate</b>	1Hz
<b>Period</b>	24 hours
<b>Antenna</b>	PolaNt-x MF
<b>Environment</b>	open sky
<b>Measured Accuracy</b>	2.76cm (2D RMS)



## ■About CORE CORPORATION.

CORE was founded in 1969 and is listed on the first section of the Tokyo Stock Exchange. It started the development of embedded software from the very early days when devices with embedded microcomputers appeared in our society. As an independent corporate "Solution Maker," it provides ICT as well as other customer-oriented services and products to a wide range of industries. CORE is committed to using the technology, know-how, human resources, and expertise cultivated in embedded software development to solve customers' problems, materialize their ideals, and create "new values" with our customers.

Please refer to the website for details of CORE CORPORATION and its products.

CORE CORPORATION: <https://www.core.co.jp>

## ■About Septentrio N.V.

Septentrio offers high-precision multi-frequency multi-GPS/GNSS receivers for demanding applications. It is used in various fields that require accurate, robust, and safe centimeter-level positioning, such as autonomous driving, logistics, unmanned aerial vehicles (UAV's), construction, mining, railways, and robots. Headquartered in Leuven, Belgium, it has offices in Torrance (California, USA), Shanghai (China), Yokohama (Japan), and partner companies around the world. Please refer to the website for details of Septentrio and its products.

Septentrio: <https://www.septentrio.com>

## ■To Investors

This press release is intended to inform you of the qualitative progress of our business, and it is not intended for solicitation of investment. Please refer to the financial statements and other information disclosed on the Stock Exchange for the progress and forecast of our business performance and management indicators.

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