



GNSS OEM SOLUTIONS

JAVAD GNSS GUIDES ESA VEGA MISSION

Customer Story

- The European Space Agency's (ESA) Vega rocket relies on precise navigation for deploying satellites into orbit. JAVAD GNSS provided GNSS OEM solutions for the mission.

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November 8, 2021 - By Matteo Luccino

A JAVAD OEM GNSS board is at the heart of the navigation system of the Vega space vehicle developed by the European Space Agency (ESA). ESA developed Vega to launch small satellites into low Earth orbit. It provides great flexibility of mission at an affordable cost and represents the European solution for space accessibility.

The JAVAD OEM GNSS board is embedded in the gle/RGU/G2T/HDA/MB1 — a cost-effective, high-performance, compact and rugged GNSS receiver specifically designed and environmentally qualified. Installed on the upper stage of the VEGA launcher, it allows accurate trajectory verification during the entire flight mission.



The JAVAD OEM GNSS board is embedded in the gle/RGU/G2T/HDA/MB1 for space missions. (Photo: GreenLake Engineering)

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For many years, Instrumentation Devices (based in Como, Italy) and JAVAD GNSS have been partners. Instrumentation Devices sub-contracted for the Vega project with Avio (based in Colleferro, near Rome), which is the prime contractor with ESA. Avio is an international group that designs and produces space launchers and both liquid and solid propulsion systems for space transportation.

ESA supervised the project and is responsible for all activities relating to flight safety and qualification of the equipment installed on board. JAVAD GNSS supported GreenLake Engineering with the integration and low-level configuration of the OEM board for this challenging application.

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