



## AAC Clyde Space components onboard ESA's Jupiter mission

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**AAC Clyde Space has been part of the team developing the SWI instrument onboard the European Space Agency's (ESA) Jupiter mission JUICE, that started travelling to its destination after launching from French Guiana at 14:14 CEST today onboard an Ariane 5 rocket.**

AAC Clyde Space's subsidiary AAC Omnisys has had a key role in the development of the Sub-millimeter Wave Instrument (SWI), one of 10 instruments onboard the spacecraft. Apart from Omnisys, Chalmers and AB Low Noise Factory from Sweden, have also been involved in developing the instrument, in a project headed by the Max Planck Institute in Germany and parties from a total of 10 countries.

The SWI is a spectrometer that will investigate the temperature difference, composition and dynamics of Jupiter's atmosphere, exosphere and the surfaces of the icy moons. AAC Omnisys has been involved in the project since the start in 2009 assisting with system design and definition of various subsystems. Specifically, AAC Omnisys has contributed with a 600 GHz receiver based on integrated Schottky diode technology developed at the Department of Microtechnology and Nanoscience at the Chalmers University of Technology, and integrated cryogenic amplifiers from Low Noise Factory AB, in Gothenburg, Sweden. Thereto two broadband spectrometers based on Omnisys proprietary full custom ASIC technology were also delivered. The circuits provide a performance that is ten times better than previous technologies' and enable more scientific research results.

*"Today, we are celebrating that we are part of this prestigious project, ESA's largest space mission to date. It is breathtaking to realize that our components are set to reach as far out into the universe as to Jupiter. Naturally, we are proud that AAC Omnisys was selected for this mission based on their profound expertise and unrivalled track record,"* says **AAC Clyde Space CEO Luis Gomes**.

JUICE is expected to reach Jupiter in July 2031. The vessel will enter orbit around Jupiter and make 35 flybys of the moons Europa, Ganymede and Callisto. Thereafter, ESA will use Jupiter's immense gravity to steer the spacecraft into orbit around the largest moon in the solar system, Ganymede. Finally, the spacecraft will enter an orbit around Ganymede, where it will also crash.

For at least three years, JUICE will conduct detailed studies of the largest icy moons in the Jupiter system. The scientists hope that the mission will provide answers to how a solar system can arise and whether there are conditions for life under the frozen oceans on Jupiter's moons.

### FOR MORE INFORMATION

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### ABOUT AAC CLYDE SPACE

AAC Clyde Space specialises in small satellite technologies and services that enable businesses, governments and educational organisations to access high-quality, timely data from space. Its growing capabilities bring together three divisions:

**Space Data as a Service** – delivering data from space directly to customers

**Space missions** – turnkey solutions that empower customers to streamline their space missions

**Space products and components** – a full range of off-the-shelf and tailor-made subsystems, components and sensors

AAC Clyde Space aims to become a world leader in commercial small satellites and services from space, applying advances in its technology to tackle global challenges and improve our life on Earth.

The Group's main operations are located in Sweden, the United Kingdom, the Netherlands, South Africa and the USA, with partner networks in Japan and South Korea.

AAC Clyde Space's shares are traded on Nasdaq First North Premier Stockholm with Erik Penser Bank AB as Certified Adviser. The share is also traded on the US OTCQX- market under the symbol ACCMF.