AAC Clyde Space subsidiary Hyperion to verify laser communication in-orbit

2021-01-05 AAC Clyde Space AB (publ)

AAC Clyde Space AB (publ) ("AAC") subsidiary Hyperion has been awarded a MEUR 0.15 (approx. 1.5 MSEK) order to carry out an in-orbit verification of CubeCAT, its space-based laser communication terminal. CubeCAT is designed to enable ultra high-speed downlink of data from small satellites, greatly improving and facilitating their data communication.

Hyperion Technologies has developed the laser communication satellite terminal together with the Dutch independent research institute TNO. The terminal is a 1U, low power and low mass solution to downlink data from small satellites with speeds ultimately up to 1 Gbps and uplink of 200 Kbps. The terminal is an ESA ScyLight technology demonstration project supported by the Netherlands Ministry of Defense and Netherlands Space Office. It is planned to launch into space early 2022 onboard the NorSat-TD satellite.

The laser communication terminal will greatly improve and facilitate data communication for small satellites. Today, small satellites use radio communications with limited bandwidth and high power demand, a technology that severely constrains the ability to communicate the increasing volumes of data collected in orbit by modern small satellites.

In addition, the process of getting a license to send and receive on a dedicated radio frequency often takes one to two years. There are no space constraints or licensing needs for laser communication.

With a 1U form factor, low power needs and low mass, the CubeCAT can be easily integrated into small satellites. The terminal also has an on-board data management system, featuring a large data storage buffer.

The verification will rely on a network of optical ground stations, among them a station that TNO is developing in the Hague, Netherlands, and the European Space Agency's ground station in Tenerife, Spain. Ultimately, Hyperion and TNO will be able to support laser communication needs for sending and receiving in space, air and ground.

"This is great news to the team in Delft, showing an impressive pace in their efforts to develop a new laser-based communication system for small satellites. This is a technology that will accelerate our deployment of data intensive space missions, paving the way for more capable Earth monitoring satellites, and in the near future, complex data communication networks in space" says **AAC Clyde Space CEO Luis Gomes.**

FOR MORE INFORMATION:
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ABOUT AAC CLYDE SPACE

AAC Clyde Space offers turnkey solutions and services from mission design to on-orbit operations, including reliable customizable satellite platforms in the range of 1 to 50 Kg and a full range of subsystems for cube and small satellites. With unrivalled flight heritage and end-to-end service, AAC Clyde Space enables customers to reach their mission goals through a single, trusted point of contact.

AAC Clyde Space's shares are traded on Nasdaq First North Premier Stockholm. Erik Penser Bank AB, e-mail certifiedadviser@penser.se, telephone +46 8 463 83 00, is the Certified Adviser. The share is also traded on the US OTCQX-market under the symbol ACCMF.