

Reprogrammable satellite takes shape

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The communications module of Quantum is slowly lowered onto the service module. Credit: Airbus

The payload and platform of the first European satellite that can be completely reprogrammed after launch have been successfully joined together.

The assembly of Eutelsat Quantum took place in the Airbus facility in



Toulouse, France, on 10 May.

The <u>satellite</u> has been developed as an ESA Partnership Project with satellite operator Eutelsat and satellite manufacturer Airbus, under ESA's programme of Advanced Research in Telecommunications Systems (ARTES), leveraging on Surrey Satellite Technology Ltd, which provided the satellite's innovative platform.

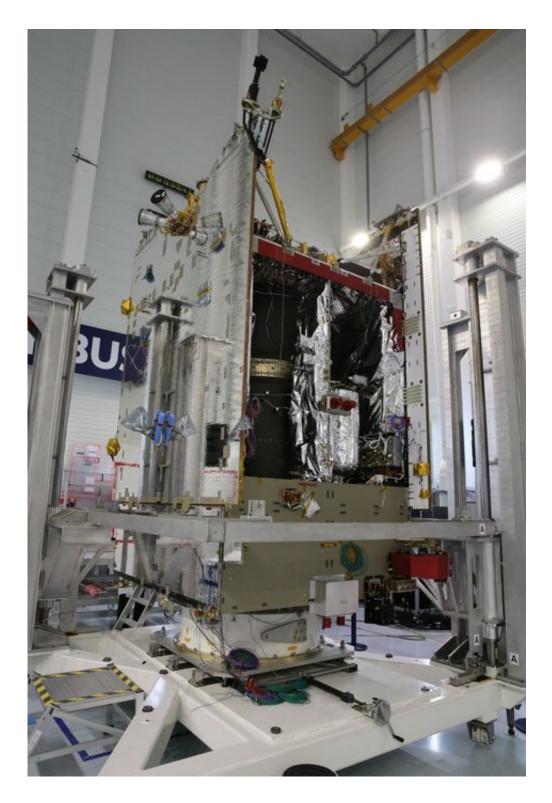
Eutelsat Quantum will allow its users to actively define and shape the performance and reach they need from the satellite.

Because Eutelsat Quantum takes a software-driven approach, changes can be made while it is in orbit, such as adjusting the satellite's coverage, frequency and power, which enables it to operate from any orbital position.

The successful mating of the payload and platform demonstrates the excellent capabilities of Airbus, Surrey Satellite Technology Ltd and their suppliers, both in the conception and the realization of the new technologies deployed in this innovative satellite.

ARTES Partnerships Projects help European and Canadian space industries to develop new products and services, supporting the introduction of novel technologies and solutions that might not otherwise reach the market.





Quantum satellite after mating of payload and service module. Credit: Airbus



The Quantum partnership has the strong backing of the UK Space Agency and includes Airbus UK as prime contractor and payload provider. With Surrey Satellite Technology Ltd, Airbus UK manufactured and integrated most of the satellite's cutting-edge equipment.

Stéphane Lascar, Head of the Telecommunications Satellite Programmes Department at ESA, said: "The coupling of the Quantum payload and platform is a key milestone in the final assembly, integration and test sequence of the satellite. This achievement is based on the excellent cooperation between all partners. It demonstrates the trust of satellite operators, <u>space industry</u> and participating states in ESA to manage efficiently Partnership Projects according to commercial best practices."

The completed satellite will now be tested under the harsh conditions needed to simulate both launch and the space environment in which it will orbit the Earth.

Provided by European Space Agency

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