



Horizon 2020
European Union Funding
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Press release

A new concept of integrated modular avionics (IMA) for General Aviation aircraft is designed in Malaga, Spain

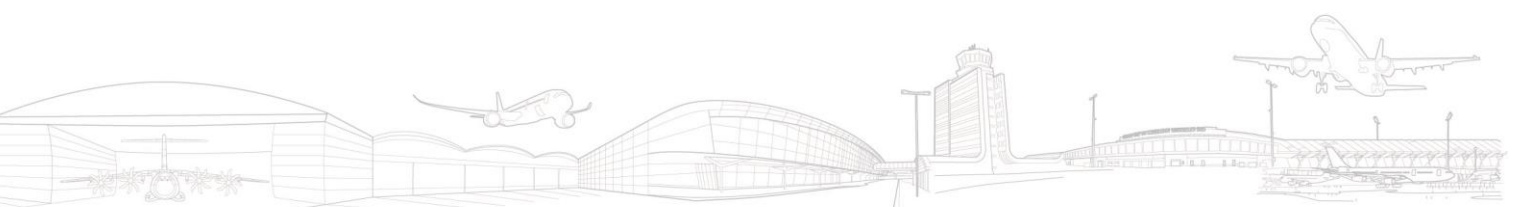
- The IMASAT research project (*Integrated Modular Avionics for Small Air Transport*) is part of the Clean Sky 2 European initiative, the biggest aeronautical research programme in Europe, which is led by the international engineering firm AERTEC Solutions, in partnership with Clue Technologies.
- AERTEC Solutions will coordinate the project, leading the requirement gathering phase and verification tests of the flight control module and its subsequent integration at the facilities of the Clean Sky Topic Manager, a manufacturer of light aircraft, for the Small Air Transport range (SAT) and for a maximum of 19 passengers.
- Clue Technologies, a company from Malaga with a technology base, specialising in the manufacture of electronic systems for the aerospace industry, will lead the design and development of the new modular computer.

23 July 2018.- AERTEC Solutions, the international engineering company that specialises in technologies applied to the aeronautical industry, coordinates the European IMASAT project (*Integrated Modular Avionics for Small Air Transport*) in partnership with **Clue Technologies**, a start-up from Andalusia that specialises in the development of avionics systems.

The results of the research work will be used to define and implement the *Integrated Modular Avionics* concept (IMA) for *Small Air Transport* (SAT) aircraft with a capacity for 6 to 19 passengers. The aim is to help the European industry adopt fly-by-wire systems (FBW) to reduce the weight of avionics systems, reduce the number of maintenance operations and improve safety by improving the human-machine interface and automatically help stabilise the aircraft.

The purpose of the IMASAT project is to provide a response to one of the goals of the Clean Sky 2 initiative, the most important European research programme for the development of technology that improves competitiveness in the industrial aeronautic sector, and also intends to reinvigorate the SAT market, encouraging the application of new and profitable technologies in the systems area for a future state-of-the-art small air transport aircraft. The project research work will focus on the design, manufacturing and classification of the new computer node, so it can be used as a flight control element in this SAT segment, providing a new approach for the architecture, design, software, production and certification of a new integrated modular avionics concept.

AERTEC Solutions leads the IMASAT project, in partnership with Clue Technologies, a company specialising in the manufacture of electronic systems for the aerospace





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industry. Both companies have their headquarters in Malaga and are partners of the cluster of aerospace systems of the Andalusia Technology Park.

AERTEC Solutions is a partner (Core Partner) of Clean Sky 2 participating in the PASSARO project. In this case, the aim is to use representative Aerostructure prototypes of both cabs and wings to demonstrate how a set of innovative technologies can be applied to the design, manufacturing and land testing phases.

About AERTEC Solutions

AERTEC Solutions is an international engineering and technology company that specialises in the aeronautical industry, airports and the defence sector and that participates in the leading global aeronautical programmes (A350XWB, A400M, A320, Eurofighter or A330MRTT), and has rolled out its solutions in more than 100 international airports, in 30 countries. Likewise, it develops unmanned aerial systems with its proprietary technology.

The company is currently a preferred supplier (Tier-1) of the Airbus Group for manufacturing engineering and programme management services for its civil and military aircraft, as well as providing its know-how and experience in industrialisation activities, manufacturing support, installation and design and production support, in addition to test systems engineering.

AERTEC Solutions has offices in Spain, France, the United Kingdom, Portugal and Colombia, and a team of over 500 professionals who are experts in the aeronautical industry.

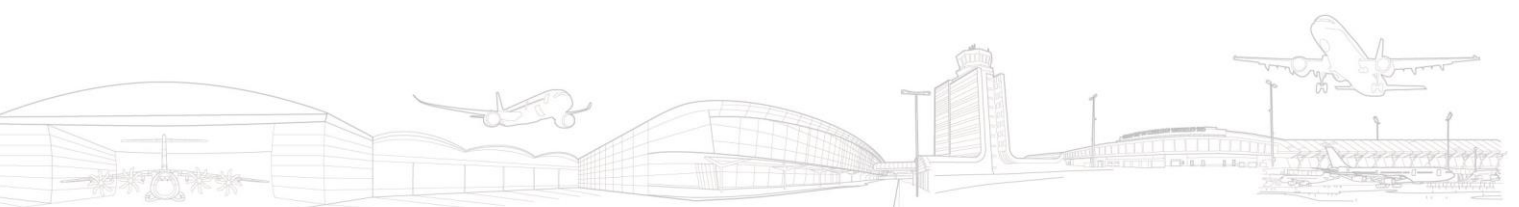
About Clue Technologies

Clue Technologies is a technology *start-up* based in Malaga, which is dedicated to research and development on integrated electronic systems for the aerospace industry.

The purpose of the innovative avionics systems developed by Clue Technologies is to improve aircraft safety, make them more efficient and, as a result, more respectful of the environment and user.

The company has worked on many different technology-based projects with the Airbus group. As a result of this collaboration, a flight computer designed by Clue Technologies was selected for 16 Airbus C295 aircraft in an order placed by the government of Canada for its Fixed-Wing Search and Rescue Aircraft Replacement Project (FWSAR). This is the biggest contract of the aerospace giant in Spain for the next three years.

Clue Technologies is one of the few national and European companies dedicated to the research and development of avionics computers.





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About IMASAT

The purpose of the IMASAT project, funded by the Clean Sky 2 Programme under topic "JTI-CS2-2017-CFP06-SYS-03-09 - Computing Node for Safety Critical Applications" is to define and implement the IMA concept (Integrated Modular Avionics) for SAT, so the European industry can adopt fly-by-wire systems (FBW) to reduce the weight of avionics systems, reduce the maintenance operations and improve safety by improving the human-machine interface and automatically help stabilise the aircraft.

For further information:

Media Relations Department of AERTEC Solutions

Celia Ruiz

Tel: (+34) 954 62 27 27

M. (+34) 654 74 64 73

