PRESS RELEASE

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Future Avionic Suite Technology "AAS"

aselsan

ASELSAN's Time Sensitive Network based Avionic Suite serves as your reliable partner in the field by providing state-of-the-art TSN high speed and highly reliable deterministic Network avionics solutions in order to fulfill all the requirements of military and civilian rotary and fixed wing platforms with optimum size, weight and power. Experience of ASELSAN on design, production, test, integration, installation of high-tech avionic systems for fixed/rotary wing aircrafts and unmanned air vehicles comply with DO-178B/C, DO-254 DAL-A/DAL-B and DO-160G. These avionic solutions include more than 20 different LRUs developed and verified including mission and flight control computers, flight management systems, inertial navigation systems that leads to the development of TSN AAS.

TSN AAS is developed to be compatible with IEEE Time Sensitive Network (TSN) objectives in aerospace networks covering convergence of legacy busses on a deterministic, high performance backbone and certifiable, standards-based, deterministic, high bandwidth network. These objectives will lead TSN based AAS avionics to cost effective certifiable solution for both civil and military use cases.

TSN AAS offers Distributed Integrated Modular Avionics (DIMA) suite with the aim of weight and power reduction including the core units such as ASELSAN Deterministic Network Switch (ADNS), Common Processing and Management Unit (CPMU) and Data Collection and Distribution Unit (DCDU), teaming up to form the structure of the TSN based avionics suite backbone. Moreover test and verification infrastructure for this DIMA Suite is developed.

On top of ASELSAN's experience of working with Turkish Directorate General of Civil Aviation (SHGM) and Sikorsky Internal Authority throughout the approval processes of avionic systems that are being verified for their related requirements in ASELSAN's accredited test labs and Certified Quality Management System according to international standards. EASA ETSO C153a Certification Process for TSN based ADNS Equipment and DoA and PoA Applications' processes have still been executed with well-known certification authority EASA.

ASELSAN's TSN AAS, using innovative technologies is developed and manufactured indigenously, bringing new key benefits to airborne platforms allowing high speed and highly

reliable deterministic network; customizable, scalable and configurable according to platform mission needs; offering these high-end technologies in a reduced SWAP and light harness ending as the new game changer in the new generation airborne avionics via these superior features.

About ASELSAN:

As a global technology leader, we have established an organization that delivers new experiences to our users all across the world. By investing into our highly diversified human asset, we keep growing in a sustainable and inspiring fashion.

A journey began with a radio communication device today took us to more than 500 various products and solutions that changed "status quo ante" in defense and security arena. Our ambitious global expansion strategy made us embracing investment opportunities in promising markets.

With the inspiration of our clients in more than 80 countries, we start every new day with new ideas and dreams that encourages us to challenge technology boundaries. Striving for a better planet is our endless motivation.

Note: For more information regarding the products, please visit our booth at the IDEF 2023.

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