

AXISCADES' subsidiary Mistral and Altera Forge Strategic Alliance To Transform High-Performance Aerospace & Defense Computing

Mistral also officially unveiled the SOSA™- Aligned 3U VPX Processing Engines with Altera Agilex™ 9 Direct RF FPGA at Bengaluru Event.

06th March 2025, Bengaluru, India

Mistral Solutions Private Ltd, (Mistral) a subsidiary of AXISCADES Technologies Limited (AXISCADES), a chip to product company and a pioneer in Defense, Electronics, Semiconductor and Artificial Intelligent (ESAI) applications, proudly announces a strategic partnership with Altera (an Intel Company) to advance high-performance computing solutions for mission-critical defense applications. This collaboration aims to leverage Altera Agilex™ 9 Direct RF FPGA technology to drive next-generation innovations in defense and aerospace industries.



The announcement was made at an exclusive Seminar organized by Mistral and Altera - “Advancing Mission-Critical Applications with Altera’s Direct RF FPGAs” - at Bengaluru, on 04th March 2025. The event was witnessed by industry professionals, technology leaders, and defense experts from DRDO Labs, ISRO, HAL, and BEL among others. The Seminar featured a keynote address from Dr. B K Das, DG ECS, DRDO, who emphasized on the significance of Industry collaboration and its contributions to various DRDO programs. Following this, Sharadhi Babu, President of Defense Business at AXISCADES, outlined the company’s strategic vision and technology roadmap for defense. He detailed AXISCADES’ commitment to driving indigenous innovation in mission-critical solutions, emphasizing its expansion into next-generation defense capabilities.

Speaking on the partnership, Mr. D Murali Krishnan, CEO, Mistral Solutions, stated: “We are excited to join hands with Altera in accelerating defense technology innovation. This strategic collaboration will empower defense programs with high-performance computing, enabling real-time data processing and ultra-low latency communication. By integrating Altera Agilex™ 9 Direct RF FPGA technology into our solutions, we are set to revolutionize mission-critical applications with unparalleled processing power and efficiency.”

“Altera Agilex 9 Direct RF FPGAs feature integrated circuitry that used to be done in the analog domain, offering Mistral customers the critical SWAP capabilities and accelerated deployment

required for next-generation applications in the aerospace and defense markets,” said John Sotir, General Manager Military, Aerospace & Government Group at Altera.

Launch of VPX3U-AGRW027/014 Processing Cards

During the event, Mistral unveiled its state-of-the-art 3U VPX SOSA™ Aligned Processing Cards built around the Altera Agilex™ 9 Direct RF FPGA. Designed for rugged mission-critical environments, this cutting-edge processing card offers:

- High-performance computing with ARM Cortex-A53 HPS Processor
- Integrated 8-Channel ADC & DAC for real-time data acquisition
- Ultra-low latency and high-throughput processing with transceiver rates up to 58 Gbps
- Support for high-channel density processing requirements
- Full Board Support Package for seamless application development

“With the launch of our VPX3U-AGRW027 Processing Card, we are bringing best-in-class FPGA-based computing to mission-critical applications. This technology will redefine real-time defense systems, offering unmatched speed, flexibility, and performance” said Mr. C Manikandan, CTO of Mistral, on the product launch.

Mistral’s Technology Roadmap for Altera Agilex™ 9 Direct RF FPGAs

Mistral also unveiled its technology roadmap, which includes a pipeline of advanced products leveraging Altera Agilex™ 9 Direct RF FPGAs for mission-critical applications. These upcoming products are set to enhance Electronic Warfare (EW) Systems, Radar and Signal Intelligence (SIGINT), High-end Test and Measurement Equipment, 5G/6G Wireless Communication Infrastructure, and Space and Aerospace Signal Processing among others. With high-speed real-time processing, ultra-low latency, and rugged design, these cutting-edge solutions will empower defense, aerospace, and communication industries with next-generation capabilities.

For more information about the VPX3U-AGRW027/014 Processing Cards and Mistral’s other products and services, contact us at info@mistralsolutions.com.

About AXISCADES Technologies Limited

AXISCADES is a leading, end-to-end technology, product and solutions provider aiding the creation of innovative, sustainable, and safer products worldwide in the Aerospace, Defense and ESAI domains. Headquartered in Bangalore with subsidiaries and offices worldwide, in France, Germany, Denmark, USA, and Canada. AXISCADES has a diverse team of over 3000+ professionals working across 15 locations across globe, striving to reduce the program risk and time to market.

AXISCADES has long term relationship with Defense Forces, MoD, Defense Labs and PSUs along with global OEMs. AXISCADES possesses expertise in Airborne Systems & Telemetry, Radar & Sonar systems, Electronic Warfare Solutions, C4I2, Drones, Anti-Drone Systems, Test Solutions, GSE and GHE. We have executed several innovative in-house projects and partnered solutions for Land, Naval, Aerospace and Home Land Security.

The comprehensive portfolio of solutions cover the complete product development lifecycle from concept evaluation to manufacturing support and certification. More: www.axiscades.com

About Mistral Solutions Pvt. Ltd.

Mistral Solutions a subsidiary of AXISCADES, is a chip to product company that delivers AI enabled Aerospace & Defense Products for Radar, Sonar, EW system, Telemetry system, Direction Finding System, Mission-critical AI enabled SBC and Video Processing to the edge, making advanced technologies profoundly more accessible for today's most challenging aerospace and defense missions. Mistral Products allow customers to tap into innovative capabilities from chip to system scale, turning data into decisions on timelines that matter. Mistral's products and solutions are deployed in many more Aerospace & Defense programs and other countries, enabling a broad range of applications. MISTRAL SOLUTIONS PVT LTD is headquartered in Bengaluru, India, and has many more locations in worldwide.

To learn more, visit www.mistralsolutions.com.

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