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NOVI Second Gen Flight Computer with VORAGO Microcontroller to fly on SpaceX Transporter-12

June 12, 2024

AUSTIN, TX - June 12, 2024 -

Austin, Texas - NOVI LLC and VORAGO Technologies today announced that NOVI?s second generation space rated flight computer featuring an AMD Versal adaptive SoC and VORAGO Arm® Cortex®-M4 has completed testing and is scheduled to fly its first space mission this fall. NOVI?s integrated spacecraft and on-board computer is scheduled to fly on SpaceX Transporter-12 Falcon 9, currently targeted for launch in October 2024.

?We are looking forward to demonstrating what we think is a compelling mix of high performance, low cost, and radiation tolerance. This will be the sweet spot for the growing market of small spacecraft in proliferated LEO constellations (and beyond),? said Amit Mehra, Founder and Managing Partner of NOVI LLC.

?We initially selected the VORAGO M4 processor as a supervisor for the main SoC to provide the highest levels of radiation performance. We quickly discovered that the high performance and rich peripheral set of the MCU enabled it to take on a more primary role in managing the spacecraft bus, offloading many tasks from the Versal SoC to the VORAGO rad hard MCU. This enables a highly efficient dual strategy that leverages the AMD adaptive SoC for intensive AI applications while reducing the overall power envelope

necessary for the spacecraft,? said Jonathan King, Director of Product Development for NOVI LLC.

?We are thrilled to have an innovative partner in NOVI and that they were able to realize the full potential of our product with this edge processing use case. VORAGO is continuing to develop our roadmap to meet the ever-increasing needs of edge computing and AI/ML for space, and we look forward to ongoing collaboration with the NOVI team,? said Bernd Lienhard, CEO of VORAGO Technologies.

ABOUT VORAGO Technologies

VORAGO empowers customers to achieve their mission with its portfolio of Arm®-based components supporting the most demanding Aerospace, Defense, and Industrial applications in extreme temperature and high radiation environments. VORAGO?s patented technology portfolio (HARDSIL®) easily incorporates exceptional radiation hardening capability into standard semiconductor IC creation. Compared with Radiation-Hardened by Design techniques, HARDSIL® does not require additional structures to deliver rad-hard performance.

VORAGO Technologies primarily serves Aerospace & Defense customers in North America and Europe and has a deep flight heritage. VORAGO Technologies is a privately held company based in Austin, Texas. The company has been recognized multiple times on the INC 5000 list and in 2023 made its debut appearance among the Deloitte Technology Fast 500?. Learn more about VORAGO Technologies today at www.voragotech.com.

ABOUT NOVI

Founded in 2017, NOVI began with the vision to create a small team capable of rapidly implementing advances in spacecraft computing. The Company has exclusively focused on edge processing and AI for small spacecraft, leading the integration and in-space testing of highly integrated spacecraft and on-board computing technologies for national security and commercial applications. NOVI has been awarded a number of notable contracts and funding awards, including multiple awards from the Commonwealth Commercialization Fund (CCF), as well as Small Business Innovation Research (SBIR) awards from NASA, the U.S. Air Force, the National Science Foundation (NSF), and the Missile Defense Agency (MDA). NOVI is a privately held company based in Arlington, Virginia. Learn more about NOVI LLC today at www.novillc.com/.

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USA

VORAGO Technologies

VORAGO Technologies is a leading provider of radiation hardened and radiation tolerant components for Aerospace, Defense, and Industrial applications.

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