

Our vision

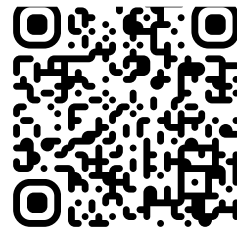
NOVI's on-board computing and low-cost multi-sensor satellite systems form the foundation for our vision of proliferating compute capabilities at the space "edge" and democratizing access to geo-intelligence.

We aim to enable the broader space industry with NOVI's low-cost, space-rated, high-performance computing systems, while also driving the rapid adoption and utilization of space-based data and intelligence across all industry verticals with GENIE, our open-access, multi-modal smart satellite constellation and platform.

The company has multiple operational in-space systems and is launching the first two satellites of the GENIE initial operating constellation in the first half of 2026.

Founded in 2017, NOVI is focused on enabling the transition from Earth Observation (EO) to near real-time Earth Monitoring (EM) and Geospatial Intelligence (GI) through the implementation of on-board edge computing and artificial intelligence.

The NOVI team is based in Arlington, VA outside of DC, and has deep domain knowledge, core competencies, and expertise in the full satellite life-cycle including: mission CONOPS, requirements development, integrated spacecraft design, hardware fabrication and procurement, AI&T, launch and regulatory licensing, and in-space mission operations.



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Equipment described herein may fall under the U.S. Export Administration Regulations and may be subject to licensing requirements under either the ITAR or the EAR.

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SPC30 RAD-HARD ON-BOARD COMPUTER

ENABLING COMPUTING AT THE SPACE EDGE

SPC30 Rad-Hard On-Board Computer

Featuring a state-of-the-art Vorago Technologies radiation-hardened MCU, NOVI's SPC30 OBC is a highly-optimized, low-SWaP, semi-customizable spacecraft electronic control and interface module (SECIM).

By leveraging Vorago's MCU and other rad-hard components, the SPC30 offers radiation performance suitable for missions to GEO, cis-lunar, and beyond. The SPC30 is powerful enough to be used as a primary computer, or as a supervisor for the main processor and other spacecraft systems.

Flexible IO options enable interfacing with spacecraft bus components and payloads to perform a full range of monitoring and command and data-handling (CD&H) tasks.

NOVI's SP240 OBC reached TRL 9 in January 2025

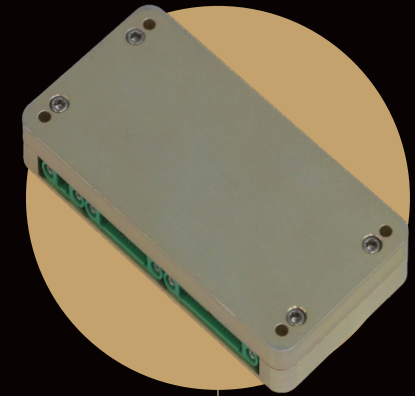


Performance

- » 100 MHz ARM® Cortex®-M4
- » Embedded rad-hard FRAM
- » Up to 16 MB rad-hard dynamic MRAM
- » Up to 1 GB rad-hard storage MRAM

Platform Support

- » Development kit with example software and drivers
- » FreeRTOS™ support
- » Ground support equipment (GSE) with power supply and breakout



SPC30 Engineering Unit

Radiation Tolerance

Rad-hardened Vorago ARM MCU

- » Radiation specifications available upon request
- » ECC protection on all memory interfaces
- » Fully characterized SEU performance

Power

- » Single 5V input
- » Low-power mode: <750 mW

Mechanical

- » 93 mm x 60 mm x 12 mm
- » Optional PC-104 form factor
- » Customizable mounting options and form factor

Flexible I/O

Highly customizable and reconfigurable with:

- » High-speed interfaces:
 - » 100BASE-TX ethernet
 - » SpaceWire
- » Low-speed interfaces:
 - » RS-422
 - » UART
 - » CAN
 - » I2C
 - » SPI
- » Analog inputs and outputs
- » GPIO