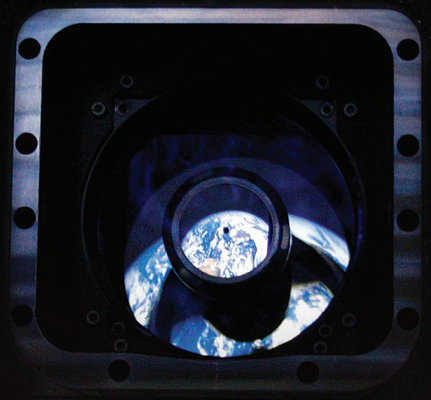


Our vision

To make space intelligent, accessible, and actionable buy bringing advance computing to the space edge.

NOVI provides the compute foundation for intelligent space systems. Through flight-proven On-Board Computers (OBCs) NOVI enables advanced computing, AI, and actionable intelligence at the space edge for applications ranging from Geo-Intelligence and Missile Defense - to Space Autonomy, Lunar Operations, and Satellite Servicing.

NOVI also offers end-to-end missions-as-a-service, providing and operating highly-integrated smart satellites that can take advantage of on-board edge computing.

Founded in 2017, NOVI is focused on enabling the transition from Earth Observation (EO) to near real-time Earth Monitoring (EM) and Geospatial Intelligence (GEOINT), as well as improving Space Domain Awareness (SDA) and Space Situational Awareness (SSA) through the implementation of advanced on-board edge computing and artificial intelligence in space.

The NOVI team is based in Arlington, VA outside of DC, and has deep domain knowledge, core competencies, and expertise in space electronics and 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.

NOVI

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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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NOVI

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

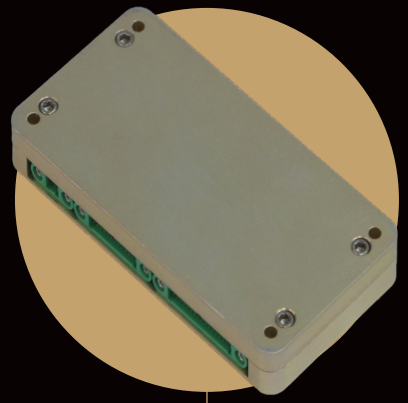
Platform Support

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

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



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