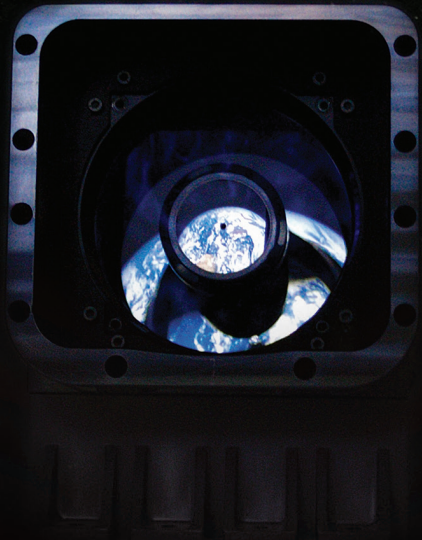




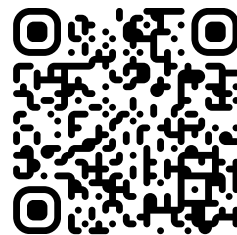
Our vision

NOVI's on-board edge computing and low-cost multi-sensor satellites significantly reduce cost, complexity and latency associated with usage of space-based data. This will democratize access for all and enable widespread adoption and usage of EO capabilities (which are estimated to add \$3.8T to the economy by 2030).

The company has launched flight edge processing hardware to the International Space Station (ISS) for in-space testing as part of the STP-H10 mission. It also launched a free-flyer spacecraft on the Transporter 12 mission in January 2025 for in-space testing of our SP240 edge processor based on the AMD Versal architecture.

Founded in 2017, NOVI is solving some of the biggest problems associated with today's Earth Observation (EO) services through implementation of onboard AI / ML and edge processing.

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



novispace.ai

Arlington, VA 22206

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 ON-BOARD COMPUTER

ENABLING EDGE COMPUTING IN SPACE

SPC30 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 in space since
January 2025

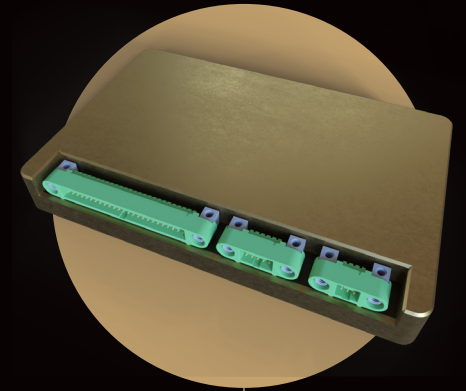


Performance

- » 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 OBC rendering

Radiation Tolerance

Rad-hardened Vorago ARM MCU

- » SEL: 75 MeV·cm²/mg
- » TID 150 krad(Si)
- » 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 IO

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
- » Optional PC-104/CubeSat Kit™ Header