

NMC

NEXTAGE MODULAR COMPUTER

PARALLEL AND SERIAL PROCESSING
EDGE COMPUTE POWER
AVIONICS PLATFORM
DETERMINISTIC AI

The NMC brings powerful, radiation-tolerant computing to space, robotics, and edge applications. Designed for affordability, reliability, and flexibility, it features in-situ reprogrammability and a modular 1U CubeSat form factor optimized for size, weight, and power.

KEY CAPABILITIES & ARCHITECTURE



- TriCortex hybrid computing architecture coordinates on-chip RISC-V processors and the PolarFire® SOC FPGA (SEU-immune).
- On-chip incremental compiler/interpreter enables live code updates without interrupting functionality.
- Supports multicore, user-programmable data widths, relocatable code, deterministic AI, and edge computing.
- Software support: Linux / RTOS / Bare-Metal; RISC-V toolchain and C/C++ compatible.

FEATURES & BENEFITS

- Massive parallel processing and modular stacking for additional I/O and driver boards.
- Over 90% FPGA resources available to user with substantial logic.
- Radiation tested in situ >30 krad (no shielding).
- Extremely low power draw and small mass for space applications.



DISCOVER MORE ABOUT OUR PRODUCTS AT
WWW.NEXTAGE-LLC.COM
QUESTIONS OR INQUIRIES? CONTACT US AT
SUPPORT@NEXTAGE-LLC.COM

