

NEWSPACE MARKET · COMPANY PROFILE



Aethero

United States · aethero.com

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PRODUCTS

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SERVICES

newspacemarket.com/companies/aethero/

as of 20 August 2026



Aethero

Aethero designs and manufactures high-performance, space-rated computers for platforms ranging from CubeSats to Space Data Centers and Space Stations. The company offers compute-as-a-service, including individual, multiple redundant, or distributed Edge Computing Modules and scalable distributed High Performance Computing clusters. These products are designed for capturing, processing, and managing data in space. Aethero leverages standard architectures like CubeSat/PC-104 and VPX/VNX, radiation-hardened/tolerant components, and Single-Event-Effect mitigations. Their versatile architecture supports applications such as Autonomous Spacecraft Operation, Machine Vision Operations (Visual Positioning Systems, Optical Navigation), Imagery Processing (UV/EO/IR, Multi-Spectral, Hyperspectral, SAR, LIDAR, TIR), RF Signal Processing, Video/Image processing, Object Detection with Classification, AI/ML Applications, Software Defined Radio, and Data Compression/Management. Product lines include NxA-ECM (Nvidia-AGX Edge Computing Module) and NxN-ECM (Nvidia-NX/Nano Edge Computing Module), with an upcoming 0x1-ECM based on RISC-V custom silicon. Platform products include the Titan Platform and Phobos Platform, which integrate their ECMs. Software products include Aether, a multi-platform framework for fleet management and over-the-air updates, and AMATDT (Automated Model Annotation, Training & Deployment Tool) for customizing AI/ML models. The company's onboard software includes ECM-OS and MCU-RTOS. The NxN-ECM and Phobos Platform are TRL-9, while the NxA-ECM and Titan Platform are TRL-8. The company has announced partnerships with Endurosat, Ansys, and Antmicro. They have also announced the launch of Phobos and Deimos satellites.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

SERVICES

Services

Application Marketplace Onboarding

Aethero encourages developers to offer applications for a revenue-split by onboarding them to its marketplace.

Compute-as-a-Service (CaaS)

Aethero offers compute-as-a-service, providing individual, redundant, or distributed Edge Computing Modules and High Performance Computing clusters for data capture, processing, and management.

Model Annotation, Training & Deployment

Aethero provides a tool for users to annotate new imagery, customize existing models, and deploy them to their Edge Computing Modules, with an option to offer models in a marketplace.

Over-the-Air (OTA) Software Updating and Fleet Management

Aethero offers over-the-air updates and fleet management for its Edge Computing Modules and platforms, ensuring seamless software and board support package deployment.

Platform Testing Framework

Aethero provides an automated framework within its Aether Software for platform testing, supporting hardware, Board Support Packages, and software for multi-node device systems.

Product catalogue

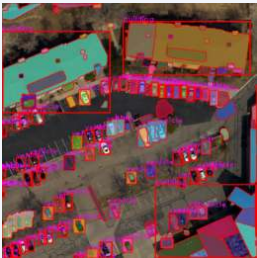


AETHERO
Aether Software Platform

Aethero's cloud-based fleet management and OTA software platform for managing distributed edge computing modules in space, supporting multi-modal AI/ML workloads and real-time oper

Deployment	Cloud + Edge (cloud.aethero.com)
Update Mechanism	OTA (Over-the-Air)
OS: Edge	ECM-OS (headless, hypervisor/containerized)
OS: MCU	MCU-RTOS (real-time, minimal footprint)
Communication Protocol	CSP (CubeSat Space Protocol)
Orchestration	Kubernetes clustering
Process Framework	MPS (Multi Process Service)

price on request

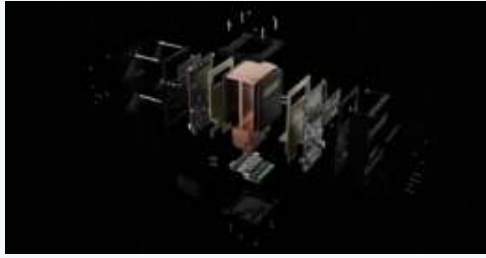


AETHERO
AMATDT

Aethero's Automated Model Annotation, Training and Deployment Tool — a software platform for customizing, training, and deploying AI/ML models onto Aethero edge computing modules,

Deployment Target	Aethero Edge Computing Modules (NxN-ECM, NxN-ECM)
Supported Imagery Types	RGB, Multispectral, Hyperspectral
Model Customization	Flag-based configuration for detection outputs
Annotation	Built-in imagery annotation tool
Training	Automated model training pipeline
Marketplace	Integrated model marketplace with revenue-sharing
Integration	Part of Aether Software platform

price on request



AETHERO NxN-ECM

Aethero's most powerful edge computing module based on the Nvidia AGX Thor or Orin processors, designed for high-performance spacecraft computing with 4000+ TFLOPS/TOPS and 50+ kRa

Processor	Nvidia AGX Thor or Orin
Compute Power	4000+ TFLOPS/TOPS
Expected Lifespan	7+ years
Radiation Tolerance	50+ kRad TID
Expansion Modules	4+ available options
Technology Readiness Level (TRL)	8
Deployment Configurations	Modular, Multiple Redundant, Distributed Computing

TRL 8 price on request

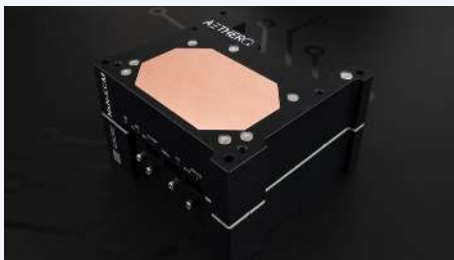


AETHERO NxN-ECM

Aethero's TRL-9 space-grade edge computing module based on the Nvidia Orin NX or Nano processors, supporting modular, redundant, and distributed spacecraft computing configurations

Processor	Nvidia Orin NX or Nano
Compute Power	4000+ TFLOPS/TOPS
Expected Lifespan	7+ years
Radiation Tolerance	50+ kRad TID
Expansion Modules	4+ available options
Technology Readiness Level (TRL)	9
Deployment Configurations	Modular, Multiple Redundant, Distributed Computing

flight proven · TRL 9 price on request



AETHERO NxN-ECM (Nvidia-NX/Nano Edge Computing Module)

The NxN-ECM is a space-rated Edge Computing Module based on the Nvidia Orin NX or Nano, available in modular, multiple redundant, or distributed configurations for spacecraft and s

Base Processor	Nvidia Orin NX or Nano
Configuration Options	Modular, Multiple Redundant, Distributed Computing Modules
Distributed Computing Support	Stackable or server rack format through Kubernetes clustering
Applications	Spacecraft, Space Data Centers, Supercomputer use cases
TRL	9

flight proven · TRL 9 price on request

Contact Aethero

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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