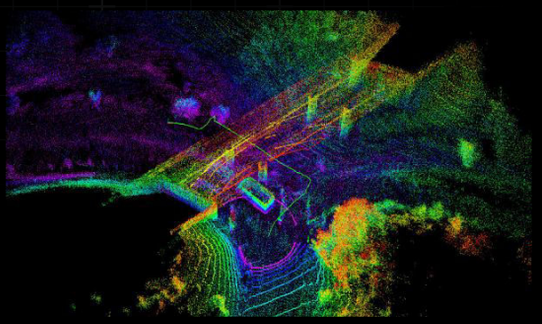
Endless possibilities on-board your drone



Add supercomputer performance to your Skynode™, right at the edge onboard your drone. The AI Node module is equipped with the NVIDIA® Jetson AGX Orin™, the world's smallest AI supercomputer for embedded and edge systems.

AI algorithms like object recognition, tracking or counting are commonly used with drones by public safety, security, or wildlife conservation teams. AI Node delivers the required resources using the NVIDIA® Jetson AGX Orin™. Up to 21 TOPS of accelerated computing deliver the horsepower to run modern neural networks in parallel and process data from multiple high-resolution sensors.

Embedded in an enclosed unit with extended memory, a wide input voltage range and a variety of interfaces, AI Node enables immediate development and prototyping. Apps can be efficiently optimized with the NVIDIA® libraries and easily deployed using the Auterion developer tools.



Ground risk estimation to detect safe landing spots in real time

Benefits

- **Compute-heavy operations**
  Run modern neural networks in parallel and process high bandwidth sensor data

- **Immediate development and prototyping**
  Plug and play with a wide range of interfaces to connect various payloads and sensors

- **Extended memory**
  Leverage fast non-volatile integrated memory for data logging and big neural networks

- **Optimized deployment**
  Optimize algorithms with the NVIDIA® libraries and deploy apps in containers with the Auterion developer tools

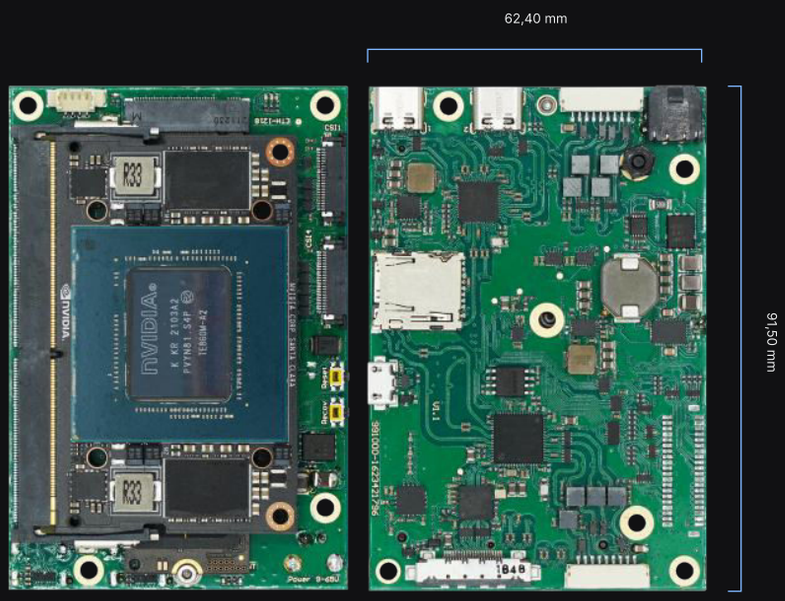


Tracking of individual objects on the ground including geolocalization



Automated asset inspection based on centimeter-level geolocalization





Enclosure dimensions: 62,45 × 91,65 × 36,85 mm, weight: approx. 209 g

- NVIDIA® Jetson AGX Orin™ system on a module
- Internal SSD with 512 GB, 1.5 GByte/s write, 2.0 GByte/s read
- Wide input voltage range: 10-65 V
- ROS 2.0 Foxy pre-installed

Interfaces

- 2x USB-C (USB3.1 and USB2.0)
- 2x MIPI-CSI on 22 pin connector, 1x two lanes, 1x four lanes, Raspberry Pi camera-compatible
- NextVision Camera
- Micro-USB for debugging
- 2x Gigabit Ethernet
- SD card
- 2x UART, I2C, SPI, CAN, 8x GPIO

