



Autonomy Kits

Adaptable, Modular, and Expandable Enclosures

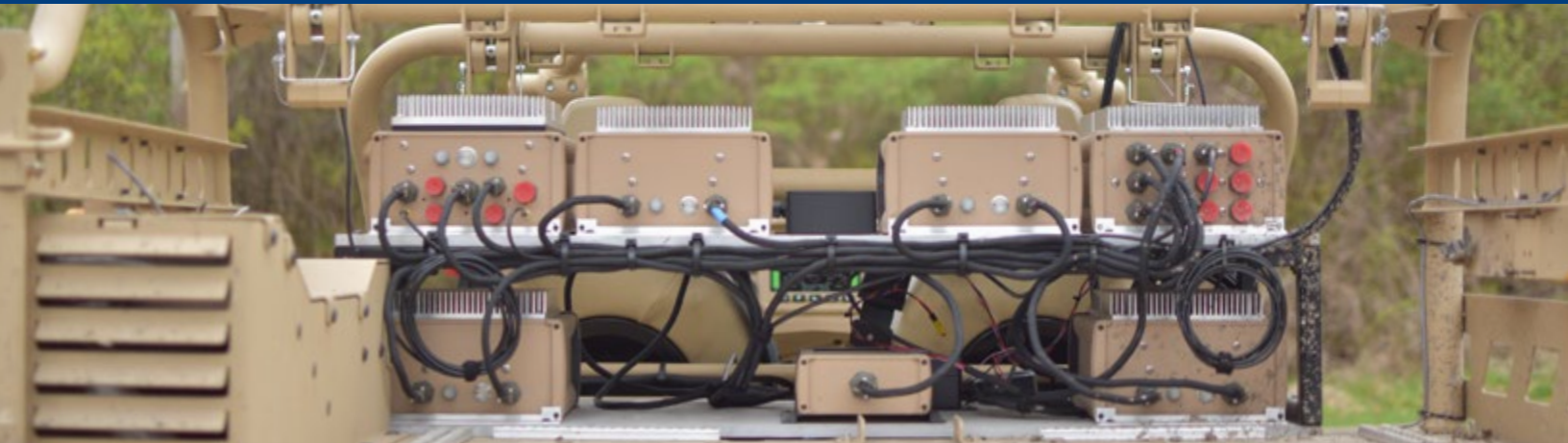
Neya's autonomy kits are designed to be modular and expandable to address the significant variation of mission types and target vehicle platforms. Our autonomy hardware is packaged as a suite of multiple enclosures to allow for additional modules to be added on for increased processing needs.

9 SERIES - SMALL ROBOT AUTONOMY KIT

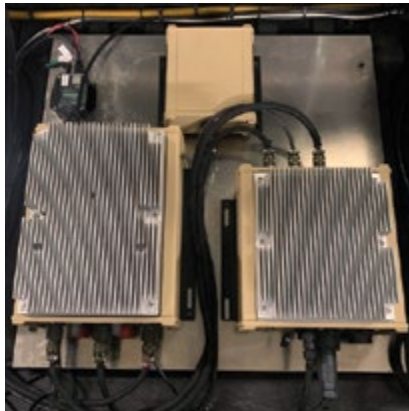


Specifications

Core Capabilities	Platform-independent navigation, ODOA, manipulator control
Autonomy Options	Neya autonomy, custom integration with JAUS skeleton
Manipulator Control	Open loop, closed loop, "fly-the-end-effector"
Waypoint Performance	Less than 3% distance traveled (depending on platform dynamics)
Dimensions and Weight	5.7in x 3.5in x 2.1in; < 1 lbs.
Power	Less than 9W
Environmental	-20 to 140F operating, IP-67, shock, vibration resistance
Interoperability	SAE JAUS, IOP Version 4
CPU	Freescale i.MX6



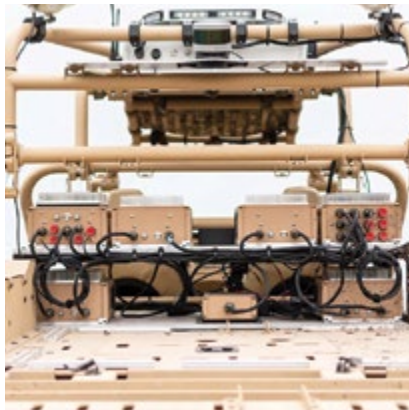
150 SERIES - WAYPOINT FOLLOWING FOR LARGE VEHICLE KIT



Specifications

Core Capabilities	Waypoint following with OD-Stop
Autonomy Options	Neya autonomy, RTK autonomy
Manipulator Control	1 LiDAR or 1 stereo camera
Waypoint Performance	Configurable cross-track error tolerance, typically within 1m-5m
Dimensions and Weight	Module sizes between 7.5in x 7.5in x 3in & 13.5in x 9in x 7in; 20.7 lbs.
Power	Less than 150W, 9-36V DC
Environmental	-4 to 140F operating
Interoperability	SAE JAUS, IOP Version 4
CPU	Intel i7/Xeon or Nvidia Xavier options

600 SERIES - ADVANCED AUTONOMY DEVELOPMENTAL KIT



Specifications

Core Capabilities	Go-To-Point with full ODOA; negative obstacle detection and vegetation filtering
Autonomy Options	Neya autonomy, RTK-Neya hybrid autonomy, or pure RTK autonomy
Sensor Configuration	2+ LiDARs and/or stereo cameras
Waypoint Performance	With GPS: cm-level accuracy; Without GPS: For every 100m traveled: 0.1m lateral drift, 0.05m longitudinal drift; During sharp turns >90deg: 0.1deg drift on hardtop surfaces & 0.35deg drift on gravel
Dimensions and Weight	Module sizes between 7.5in x 7.5in x 3in & 15in x 9in x 6in; 84.2 lbs.*
Power	300W to 600W depending on feature set, 9-36V DC
Environmental	-4 to 140F operating
Interoperability	SAE JAUS, IOP Version 4
CPU	Intel i7/Xeon or Nvidia Xavier options

*The dimensions and weight may vary depending on the custom modules selected.