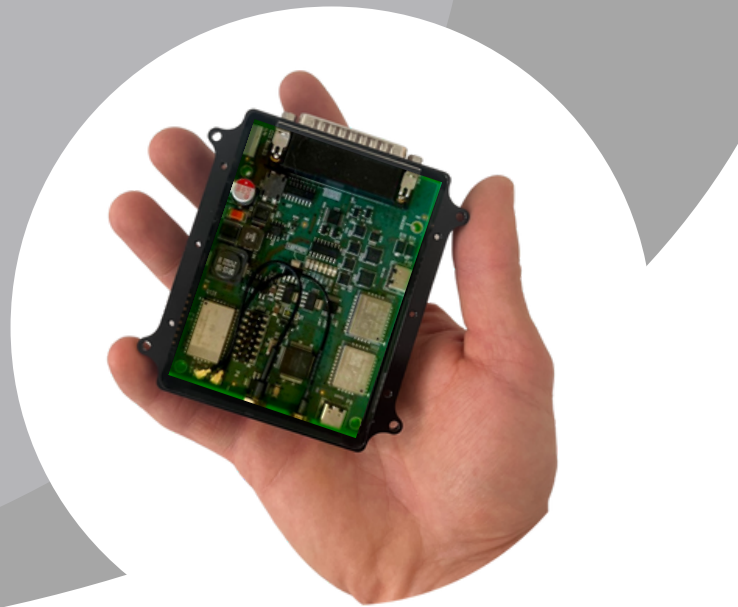


RD-TECH

NAV-IQ GCC

VER 2.01

COMPUTER CONTROL MODULE
FOR AIR, SEA, LAND ROBOTICS



KEY FEATURES

- Designed with a modular architecture allowing flexible customization and expansion
- High processing power to handle complex computations and algorithms in real-time
- Tactical grade Dual IMU with barometric sensors
- Dual GNSS receiver
- Deployed on TRL-9 systems
- Scalable and adaptive to numerous platform options

SOFTWARE OPTIONS

- Full SDK for developers
- Ready to operate firmware with parameter base calibration for VTOL, Fixed wing, quadcopters
- Integrated with various payloads from Nexvision, Octopus, and others
- Integrated with various data links that include Creomagic, Microhard, DomoTactical
- Profound mission control station with unique characteristics like touchscreen actions on video, a capable map engine, and separate operational and engineering displays.



The NAV-IQ is a highly advanced and sophisticated controller designed to provide precise and reliable control over the operational characteristics of an autonomous robotic platform.

This controller is equipped with a powerful NXP microprocessor, onboard dual inertial and barometric sensors, and a dual GNSS receiver. NAV-IQ features various programmable I/O pins for multi-servo, general purpose I/O, analog inputs, and various communication channels (UART, I2C, USB).

TECHNICAL SPECIFICATIONS

Processor	NXP 56F83783 100 MHz 256 KB Flash 64 KB RAM
Communication	4 x UART 1 x CAN 1 x I2C 1 x USB (virtual COM)
GPIO	5 x open drain 1 x pitot heater 1 x nav lights
Analog 12 bit	2 x 28V 1 x current sense 2 x 5V
PWM out	8 x PWM 16 x PWM external
PDU	6-8V 2A out 5V 1 out
V in	9-36V
Weight	under 100 grams
Build standard	MIL-SPEC
Connector	D-SUB44 MIL-STD



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