



Powered by Kinesis™

Specifications

Electrical

- 8 to 34 VDC input voltage range
- Payload output power (150 watts)
- 1x 10 Gigabit Ethernet
- 3x Gigabit Ethernet
- 3x USB 3.0
- 3x RS-232 Serial
- 3x TTL Serial (selectable voltage)
- 1x CAN 2.0B
- 1x I²C
- 1x S.BUS
- 28x PWM/GPIO
- 14x analog inputs

Software

- Ubuntu Core
- ROS compliant

Mechanical

- Dimensions: 5.00" x 5.06" x 1.30"
- Weight: 0.88 lbs
- Platform specific mounting kits

Environmental

- Operating temperature: -20°C to 60°C
- MIL-STD 810G shock/vibration
- IP67 sealed enclosure
- RE/CE101, RE/CE102 compliant

Additional Capabilities

- Optional Integrated NVIDIA TX2i
- Kinesis Mobile/Enterprise compatible
- ROS to MAVLink bridge
- Onboard sensor integration platform
- ADS-B & Autopilot integration
- Remote firmware update
- Communications bridge

KxM™

Kinesis Expansion Module

The KxM provides enterprise UAS users the ability to conduct precision data collection operations with the latest technologies. Built on a common ROS architecture, KxM enables simple integration of enhanced navigation, communication, sensors and edge computing capabilities on commercial UAS platforms with the flexibility to adapt to future enterprise needs.

Enterprises invest considerable time and effort to select the right platform for data collection operations. With KxM, enterprises can now upgrade these platforms as needed to meet their specific operational requirements while simultaneously reducing the need for multiple "one off" or custom solutions.

This provides a tremendous opportunity for savings and will maximize the ROI from current UAS capital investments.

KxM unlocks a collection of powerful capability add-ons as a simple lightweight bolt-on payload for enterprise class UAS platforms (i.e. DJI Matrice 200/600 series or Pulse Aerospace Vapor 55).

The KxM, in conjunction with the Kinesis UI, allows you to create a common network for your unmanned system assets (UAS, UGV, or emplaced sensors) providing a combined capability that is more powerful than the sum of the parts.