

G2-DGX150

Direct Georeferencing and Control System for Small Aircraft



Features

- ✦ Programmable sensor trigger
- ✦ Designed for small unmanned aircraft, based on the most accurate GNSS/IMU system in its category: **APX-15 EI from Applanix.**
- ✦ Onboard powerful microcontroller allows telemetry and camera control through the drone's payload channel.
- ✦ Dual sensor control: camera + LiDAR, etc.
- ✦ External secondary IMU for gimballed cameras
- ✦ Power and control signals for two sensors
- ✦ **Optional long range direct radio link**

applanix **DG** Inside



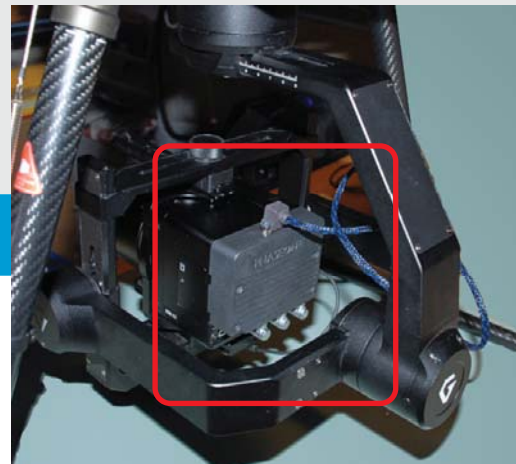
APX-15 EI

All the interfaces needed for any kind of sensor payload



Specifications (*)

- Autopilot interface: 2x serial ports 3.3V
- Camera / LIDAR Interface:
 - Serial port RS232 level
 - PPS output 5V
 - Trigger signal 5V
- IMU / Camera Interface:
 - External IMU port for gimballed camera
 - RS232 serial port
 - Camera trigger output signal 5V
 - Camera ready input signal 5V
 - Camera power
- Power input/output 9 - 36 VDC
 - Power output polarity protected.
- USB interface for mission controller
- Ethernet interface for APX15 configuration and data download.
- Optional long range radio link



External IMU adapter specially designed for Phase One cameras.

With the built-in powerful microprocessor inside the G2-DGX150, you have an intelligent mission control system capable of a fully autonomous and efficient data acquisition. It allows you to:

- Use the drone's autopilot payload data channels to monitor and remote control the sensor(s) on board.
- Manage up to two sensors (i.e. Camera and Lidar)
- Upload a mission plan with predetermined photocenters, or trigger parameters to ensure photo overlap.
- Send corrections to the autopilot if it deviates from the planned track (autopilot type dependent functionality)

**We can do customized payload and drone integrations.
Please contact us to discuss your specific requirements.**