

ITAR Free

Made in The Netherlands



MISSION CRITICAL UAV AUTOPILOT

If we can simulate it, we can control it!



Model Based Control

- Use models to define, tune and optimize control laws
- Performance verification using Monte-Carlo Simulations
- Robust flight ops, first time right
- Dynamic trajectory generation and following



Max Compatibility

- Fixed-wing and hybrid VTOL
- Multicopter and helicopter
- Tilt-wing and tilt-rotor
- Large cargo delivery platforms



High Level of Autonomy

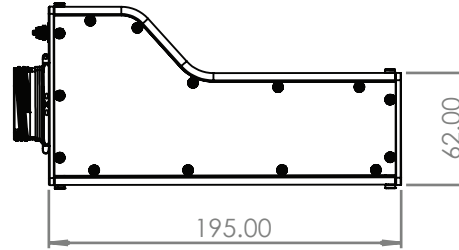
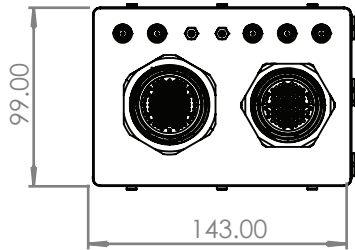
- Auto collision and geofence avoidance
- Vehicle performance adherence
- Auto take-off and auto-land on moving base
- Auto-code generation, eliminating human coding errors
- Advanced state machine
- Optional terrain following



Customization

- Customized solutions can be developed to fit your requirements
- Ability to operate in GNSS denied environments





General

- Power Input: 9 to 36VDC
- Power: 15 W
- Temperature: -40 to 85C
- Weight: 700g to 1,400g depending on configuration

Communication

- Radio: Satel mission critical radio available in 433MHz, 868MHz, and 900MHz
- Internal LTE, 4G/5G
- Optional Internal SatCom (Iridium)

Internal Sensors

- GNSS: Septentrio Anti-jamming, anti-spoofing Advanced Interference Monitoring and Mitigation
- AHRS: HKB Microstrain
- Air Data: Honeywell TruStability HSC Series upto 200kts
- Downward looking LiDar module included with autopilot

I/O

- Payload Computer
 - GPIO: 25
 - Ethernet: 1
 - Camera: 2
 - USB: 1
 - ADC Input: 2
- Hardware In Loop Interfaces
 - Isolated RS-232: 4
 - Isolated PPS input: 1
 - Isolated I2C: 1
 - Isolated EOC for Air Data: 2
 - Isolated Exposed Switches to External Sensors: 5
- Autopilot and I/O Expansion Interfaces
 - Isolated Serial Protocol: 3
 - Isolated CAN: 6
 - ADC Input (0 - 3.3V): 10
 - Isolated I2C: 5
 - Isolated TTL Level UART: 4
 - Isolated RS-232: 4 (with flow control)
 - Isolated RS-232: 1 (debug port)
 - Isolated RS-485: 2
 - Isolated 1-Wire Serial: 2
 - Isolated GPIO: 32
 - Isolated PWM In: 8
 - Isolated PWM Out: 32

