UAVOS

AP10.3 -AUTOMATIC UAU CONTROL SYSTEM (AUTOPILOT MICRO VERSION)

UAVOS

APPLICATION

AP10.3 system is designed to control the vehicles in automatic, semi-automatic or manual modes.
The following system configuration options for unmanned systems are available:

- for fixed-wing aircraft
- for rotary-wing aircraft

The AP10.3 is designed to be installed into unmanned
vehicles with a weight less than 15 kg (Micro version).
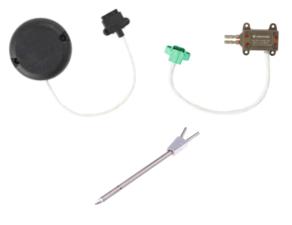
Main benefits:
- low weight and dimensions (avionics weight is less
than 100 g)
- low energy consumption

Payload of almost any type can be connected and
controlled using the interfaces:
- CAN bus
- RS-485 bus
- RS-232 interface
- UART interlace
- 1-Wire

Basic modules of AP10.3 system :
Navigation and processing unit and Data processing
unit of Pitot tube

KEY FEATURES OF THE AP10.3
(AUTOMATIC CONTROL SYSTEM FOR THE VEHICLES):

- operation units control
- engine control
- semi-automatic control with automatic
stabilization of the vehicles
- manual control using main radio link 928MHz
-communication link to ground control unit
- control of the vehicles in emergency mode
- payload control
- payload feedback
- reception and transmission of telemetry data
between GCU and the vehicles
- ground simulation mode – flight simulator

Power supply		Protection	
7-27 V	All digital logic inputs and outputs are protected	ESD protection	Power supply reverse-polarity protection

TECHNICAL SPECIFICATIONS:

Operating temperature	IP rating	Housing material	Connector
-40°C to +60°C	IP67	aluminum alloy	Harwin m300-3240696M1 Harwin M80-9420605

APPLICATION CASES

Fixed wing aircraft

Quadcopter