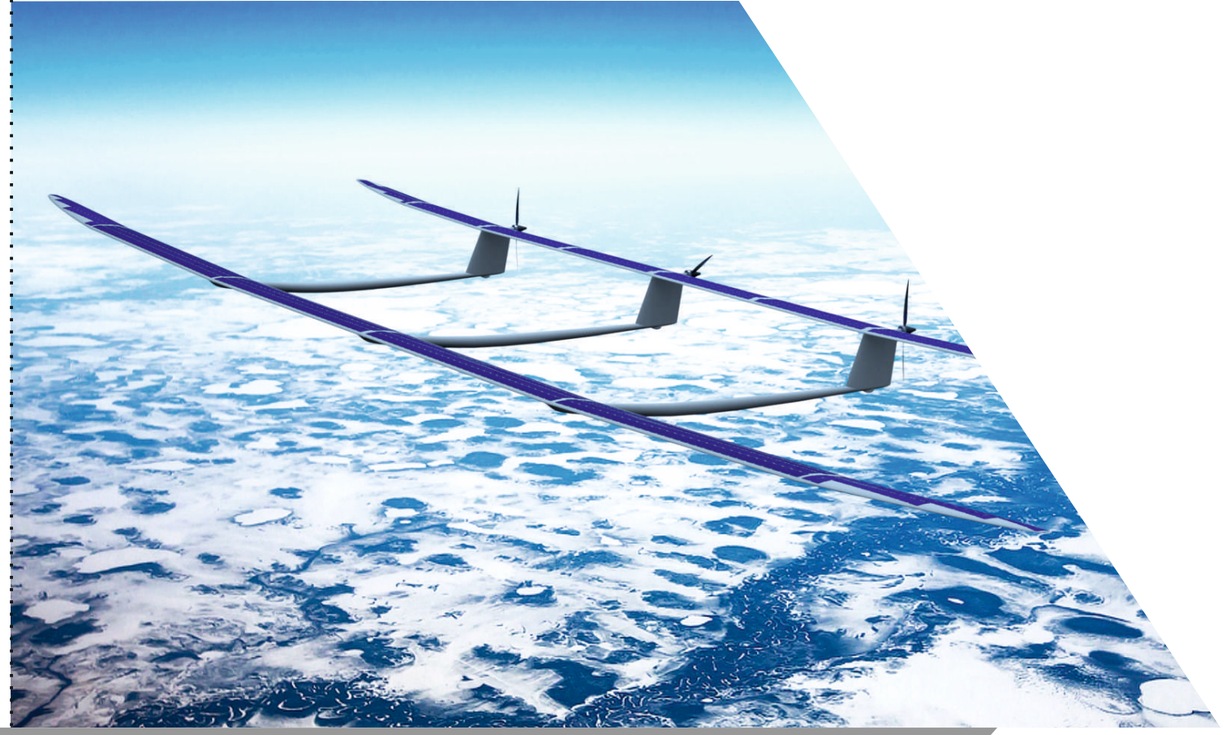
UAVOS



SOLAR FLIGHT TECHNOLOGY (HAPS)

ApusDuo ATMOSPHERIC SATELLITE

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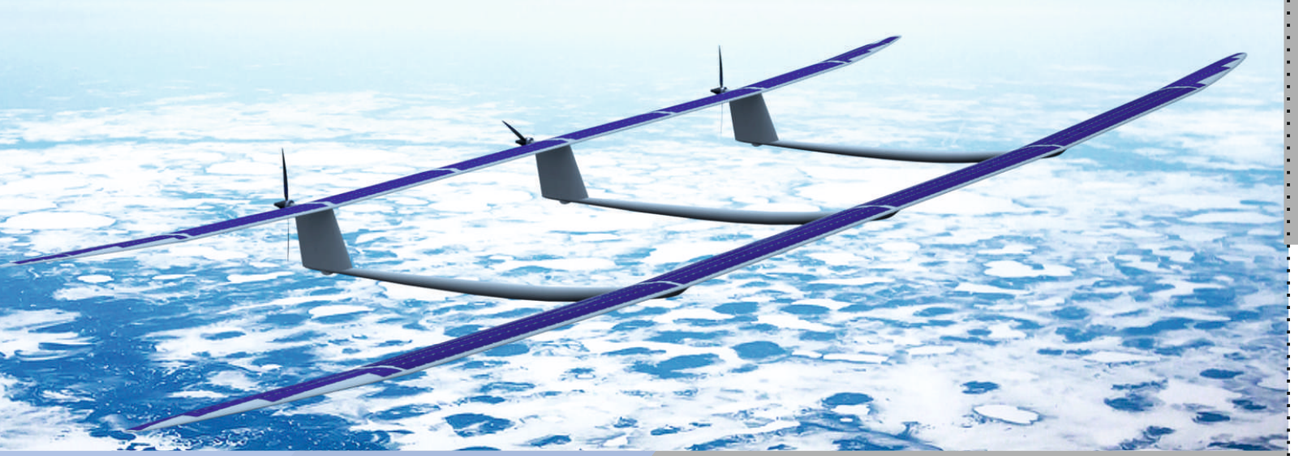
UAVOS



SOLAR FLIGHT TECHNOLOGY (HAPS)
ApusDuo ATMOSPHERIC SATELLITE

THE CARRIER ApusDuo IS USED FOR:

- Video surveillance and monitoring
- Drone communications system
- Broadband to Home and Enterprise
- Jamming
- Radio link range extension and retransmission
- Target pointing and designation
- R & D flying laboratory (meteorology, hydrology etc.)

CONTROL BASICS

Innovative solution in control of extended aspect-ratio flexible wing analyzes the spanwise deformation and adjusts lift force at a required section.
This type of control allows to distribute the load all over the wing, reduce the structure weight and effectively control the aircraft in all flight modes.

UAVOS

SPECIFICATION

FLIGHT PROTOTYPE

Parameters	Data
Wingspan	15 m
Temperature range	-65...+55
Basing	Airdrome (prepared runway)
Airspeed at sea level	8 m/s
Airspeed at altitude 15000 m	27 m/s
Maximum takeoff mass	23 kg
Takeoff and landing on runway	Fully automatic
Solar cells efficiency	21%
Ground landing means	Not required
Payload	2 kg
Storage	Transport module
Latitude/Light	20°/365 days

APPLICATION

For long continuous monitoring of the area of interest on the Earth's surface and obtaining of valuable information in real time to provide requested information support for various consumers.

This solution provides unique opportunities for using it both in non-military areas, and to solve defensive and security tasks.

www.uavos.com