Available in 2024

ORLIČAN

CargoDrone

The CargoDrone based on M-8 EAGLE and is a carbon fiber composite high wing aircraft. The aircraft has tricycle fixed landing gear with steerable nose. We can customize your airplane and create an original set up to make it your own only. You will be impressed by the wide range of options, high safety standards, impressive flight characteristics and timeless design. • The largest cabin space in its category • High payload – large range of center of gravity • Safe production: The first airplane production in the World inspected by Digital robotic x-ray scanning • Designed for many purposes.

ORLIČAN SUPPORT (*)

2 years or 100 hour flying manufactures warranty within the EU, 1 year and 100 flying hours outside EU, Document supplied with aircraft – both printed and electronic POH, electronic Aircraft Maintenance Manual and illustrated spare parts catalogue.

DARE TO BUILD YOUR OWN AIRPLANE

Do not hesitate to contact us with any question or idea you might have. We can customize your airplane and create an original set up to make it your own only. Upon your request we can price your unique ideas, set ups and equipment.

For local regulations is required to define at least bandwidth restrictions, to adapt antennas, in case of flying “bush piloting” missions is possible to adapt landing gear for this special purpose, for operating in country side on grass strips without known conditions will be possible to enhance landing procedures with prior scanning of the surface where the system shall provide auto landing to find optimal place, speed and direction.

ADDITIONAL INFORMATION - FAQ

Landing runway - CargoDrone can land anywhere where it is technically possible, requirements is a flat, straight strip.
Operational staff and their training - "Crew" shall be just one operator and may be one technician. CargoDrone is controlled via GCS (build in or small in box), Telemetry in our demonstrator works on 868MHz and shall be adjusted according to local rules and limitations. Expectations: is pilot-operator training cca 30hours

Infrastructures to build at home – Standard hangar with service corner. Ground Control Station (GCS) could be fixed, build-in in container, truck or on the airfield. Not necessary any special equipment on runway.

Infrastructure at the final destination - Here are two possibilities, one is to have small GCS in a box with someone in place, second is remote connection - mobile data/satellite, just to activate plan. Fully autonomous start and landing are already implemented, but fully autonomous taxi not, if required must be implemented and tested at the end user, especially because of to avoid collisions by taxi.

ENENGINE

Manufacturer	Rotax
Model	912
Horsepower	80 hp – 115 hp

WEIGHT

Empty weight	330 kg
Max. Take-off weight	600 kg UL2 / LSA
Min. crew weight	0 kg
Max. crew weight	0 kg
Max. cargo weight	200 kg

PERFORMANCE

Takeoff	150 m / 490 ft
Climb Rate	4–6 m/s / 800-1200 ft/min
Max Operating Altitude	4267 m / 14000 ft
Stall Speed with Flaps (IAS)	70 km/h / 37,8 kt
Max Cruise Speed (IAS)	227 km/h / 122,5 kt
Landing Groundroll	150 m /490 ft
Flight range (With Payload)	1200 km
Endurance	6 hrs

DIMENSIONS

Length	6,911 m
Height	2,719 m
Wingspan	9,117 m
Wing area	10,804 m^2
Horizontal tail width	2,800 m
Horizontal tail area	2,352 m^2
Vertical tail area	1,005 m^2
Cabin width	1,164 m

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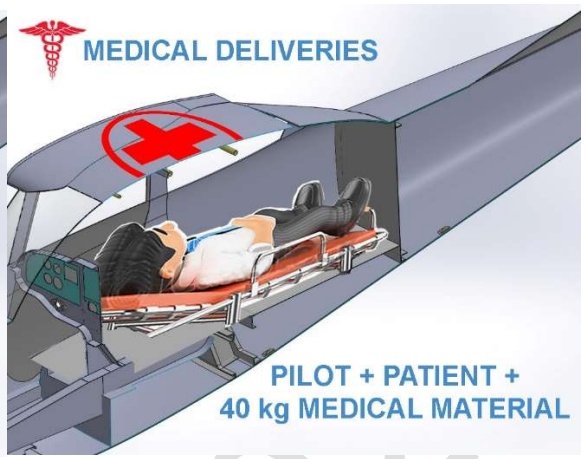

SOPHISTICATED UPAVIONICS BY ORLIČAN

AI UAV AUTOPILOT

- autonomous flight according 3D track in WGS84 coordinates
- autonomous flight according 2D track in WGS84 coordinates and altitude above the terrain
- auto start from defined airfield (could be grass runway)
- auto approach to the landing on specific runway (could be grass airfield)
- autonomous landing on specific runway (could be grass, but must have at least 1.0 km)

FLIGHT DATA

- absolute plane position WGS84 | • relative plane position
- airspeed | • vertical speed
- altitudes: baro | satellite (above geoid) | radio/laser
- engine data: temperatures | pressures | rpm | fuel level
- compass bearing/heading
- calculated wind (speed, direction)
- side slip
- angle of attack

– sense & avoid system (prevents collisions with static or flying objects)
– telemetry with GCS (ground control station)

- flying telemetry

(real time data down and mission plan changes up)

- video telemetry
- cargo telemetry

ORLIČAN s.r.o.
Londýnská 376/57,
120 00 Praha 2 - Vinohrady
Tel. +420 605 23 19 20
bervid@orlican.org
www.orlican.org
facebook.com/OrlicanAircraftCompany
instagram.com/OrlicanAircraftCompany

Výrobní závod / Production facility:

Sokolská 226
562 04 Ústí nad Orlicí – Kerhartice