ALTUS
Land Sea Air

ATLAS 8

Heavy Lifter - Octacopter

Quality / Performance

High Quality Materials – EU Origin ◄
Customization Options per Use Case ◄
Operation in Extreme Weather Conditions ◄
(Wind & Temperature)
High Mile / Cost Ratio ◄
High Endurance / Range ◄

Communication / Control

INS – Inertial Navigation System ◄
(Operation in denied GNSS
environment)
Secure RF Link ◄
(AES 256 Encryption)
Parachute Option for ◄
Extra Security
Multiple Cargo Options ◄
for various Sectors
Vast Variety ◄
of Payloads

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ATLAS 8 – Overview

ATLAS 8 is a heavy lifter multi-copter addressing the emerging requirements of the **small cargo (goods, weapons, search and rescue means, etc)** and last mile (commercial products) transport market. ATLAS 8 employs design features and operational experience from the smaller members of the ATLAS family of UAVs and provides the end user with the best weight to mile to cost ratio as well as the inherent ability to comply with the **EU 945 and 947 certifications** directives in the specific category.

The System redundancy and reliability offered by its **8 extremely powerful motors** along with its robust design and sophisticated modular payload bay make **ATLAS 8 a platform with unlimited potential.** Beyond heavy freight transport, the on-board industry-leading advanced control systems will allow **precise mid-air deployment of passive or active cargo** making it a perfect candidate for a **wide range of weapon systems and resupply operations.** The system can operate in **GPS denied environments** by employing a **GPS Jamming Countermeasure option such as INS (Inertial Navigation System).**

In addition to the full Electric Version, ALTUS LSA has developed a Hybrid version, which was conceptualized and designed to **fulfill missions that require transport of heavy payloads of up to 100Kg in weight and longer endurance**. This particular iteration, which is Work in Progress (WIP), is powered by **8 electric motors** and an **Internal Combustion** (IC) engine utilized to provide power to the motors and recharge the batteries through a Central Control Management Unit.

Autopilot upgrade

Rubber based fuel tank

Motor & ESC upgrade

Hybrid engine

Specifications & Performance

Electric Version

Dimensions [length - width – height (with gps)] **– folded**: 1050 x 676 x 573 [mm]
Dimensions [length (with propellers) - width (with propellers) – height (with gps)] **– developed**: 2640 x 2962 x 860 [mm]
Maximum take–off weight (MTOW): 172 [kg] (depending on configuration)
Max Payload Capacity: 60 [kg]
Endurance: Up to 35 [mins] (depending on Payload)
Telemetry and video range: 30 [km] LOS (extendable)
IP Protection: IP44 (upgradable to IP55)
Maximum flight altitude: 16,400 [ft]
Maximum flight speed: 79 [km/h] (49.1 [mph])
Positioning system: GNSS (GPS & GLONASS)
Frequency of communications: 2.4 [GHz] (AES 128 & 256 Encryption
Temperature operating range: –20 to +60 [°C]
Possibility of automatic take–off/landing: Yes
Battery features: 2 x 12S1P 105,000 [mAh]
Electric Power: 8 Electric Motors
Navigation lights: Yes (Green, Red and White)

Hybrid Version

Dimensions [length - width – height (with gps)] **– folded**: 1050 x 676 x 573 [mm]
Dimensions [length (with propellers) - width (with propellers) – height (with gps)] **– developed**: 2640 x 2962 x 860 [mm]
Maximum take–off weight (MTOW): 235 [kg] (depending on configuration)
Max Payload Capacity: 100 [kg]
Endurance: 3-4 [hours] (depending on Payload)
Telemetry and video range: 100+ [km] LOS (extendable)
Degree of protection – tightness: IP44 (upgradable to IP55)
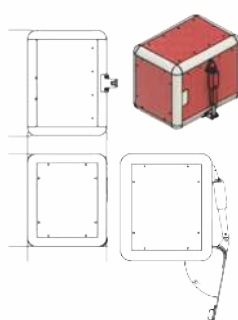**Maximum flight altitude**: 16,400 [ft]
Positioning system: GNSS (GPS & GLONASS)

ATLAS 8 Payload Types

CARGO & TRANSPORTATION

Heavy Duty Transport Box

High Volume Transport Box

FIELD MATERIALS TRANSPORT

Cargo Net (Drop, Underslung)

LAW ENFORCEMENT & ISR

A wide portfolio of payloads & OEMs can be integrated depending on client needs

EO / IR, LiDAR, FPV, Xspectral Sensors

IMSI Catcher