Technical Datasheet



Aircraft

Dimensions

Wingspan	6000 mm
Length	4712 mm
Height (Empennage)	650 mm
Ground Clearance (Fuselage)	295 mm
Ground Clearance (Pusher Propeller)	301 mm

Weight

MTOW (Maximum Takeoff Weight)	91 kg
Empty Airframe	31 kg
RTF (Dry Weight)	54 kg
RTF (Including Fuel & Batteries)	84 kg
Max Payload	7 kg

Flight Performance

Stall Speed	13-17 m/s
Cruise Speed	25 m/s
VNE (Velocity Never Exceed)	35 m/s
Maximum Crosswind	10-15 m/s
Maximum Service Ceiling	16,000 ft. AMSL
Flight Time (VTOL)	Up to 3 minutes
Flight Time (Fixed Wing)	Up to 20 Hours*
Temperature Range	-10° C to +50° C

VTOL Propulsion

Motors T-Motor ALTI U15 | KV100

Motor KV 100 KV

ESC T-Motor 180A FOC

Propeller T-Motor 40x13.1 Carbon Fiber

Battery Power Supply 12 x 16000mAh 4S Lipo

Fixed Wing Propulsion



v2020.2 | All information subject to change without notice

Command & Control | C²

Dimensions

Length	630 mm
Width	394 mm
Height	208 mm

Weight

Ground Control Station	12 kg
Volumetric Weight	14 kg (Avg)
	(01 1 1 5

Case (Shipping Purposes)
Pelican 1555 AIR

Hardware Intol NILICS

ITILELINOCO	
Storage (SSD)	120 GB

Display 2x ASUS 15.6" HD Monitors HDMI Out 1x External UHD Compatible USB 3x External USB 3.0 Ports

Bluetooth Yes

LAN 1x External LAN port Cooling 2x Active Cooling Fans

Pilot Controller Futaba Keyboard & Mouse Yes

Main AC Power 120-220v - 19V Battery Power 2 x 9000mAh 4S Lipo

Intelligent Power

Management Yes

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Links

Groundside

Data Telemetry / Video Link: Silvus Radio 4240E

- DES56 (Standard) or AES 256 (Optional)
- Omni Antenna, 4 Section Collinear, 6 dBi Gain
- Cylindrical Sector Antenna, 12 dBi Gain

Control Link: 868 / 915 MHz

- TBS Crossfire
- TBS Diamond Antenna Gain: 2.88dB

Airside

Data Telemetry / Video Link: Silvus Radio 424 0E

- DES56 (Standard) or AES 256 (Optional)

www.altiuas.com

- 2 x Omni Antenna, Half Wave Dipole 2.15dBi Gain

Control Link: 868 / 915 MHz

- TBS Crossfire
- Custom Build 1/4 Wafe dipole antennas odBi Gain

Technical Datasheet





Advanced Tracking Antenna Systems

Groundside

Video Link: 2.4GHz

Silvus Radio (SC4200E)

Antenna:

Tracking antenna

OSPT10 (100km) | OSPT25 (150km)

Control Link: 868/915 MHz

TBS Crossfire

TBS Diamond Antenna Gain: 2.88dB

Airside

Video Link: 2.4GHz

Silvus Radio (SC4200E) OEM

2x Omni Antenna, Half Wave Dipole 2.15 dBi

Control Link: 868/915 MHz

TBS Crossfire

Custom Build 1/4 Wafe dipole antennas odBi Gain

Transportation Cases

Dimensions

Case 1 Length 2735 mm Width 755 mm Height 827 mm

Case 2

Length 2585 mm Width 805 mm Height 527 mm

Case 3

Length 1955 mm Width 1185 mm 367 mm Height

Please note that the maximum range from point of operation indicated above is with clear Line of Sight (LOS), in other words, there are no major obstructions between the GCS and Aircraft. *Endurance may vary and is based on final aircraft build and combustion engine options.

Autonomous Flight Modes

> Auto Take-off and Landing Allowing for fully autonomous VTOL take-off and landing

> VTOL Transition

Seamless autonomous transition between multirotor and fixed-wing modes

> Payload Triggering

Auto trigger payload once or multiple times using Geo Reference, Time or Distance Interval. An override for manual triggering is also available

> Guided Mode

Point and click autonomous mission flight mode. Aircraft will fly to and loiter (circle) at the selected location and altitude

> Loiter

Circle around the point where you started the loiter, holding altitude for efficient flight

> Return to Launch (RTL)

Aircraft will return to the home (take-off) position in Cruise mode until it is within the RTL radius, after which it will transition to Q-Loiter (VTOL) mode and land. Radius and RTL altitude is configurable in Mission Planner

> Various other advanced mission planning and flight features available

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