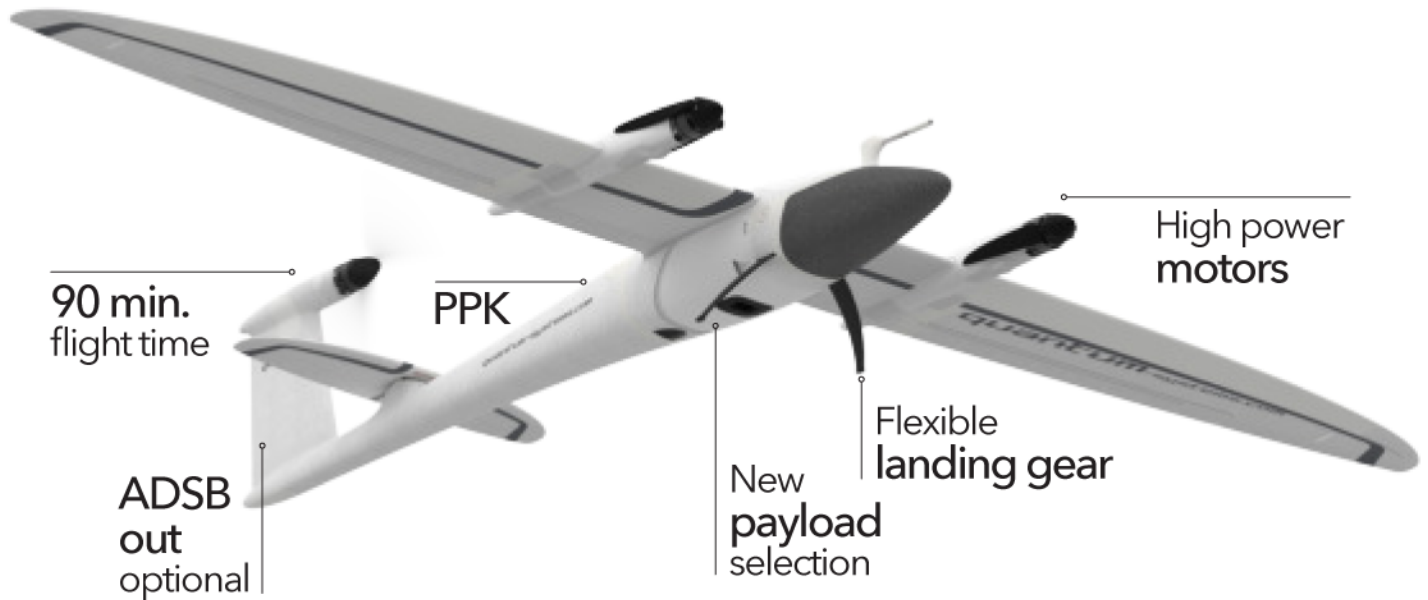


Catalogue



PACKAGE

- **Trinity F90+ UAV**
- **PPK**
Allows you to reduce typical GNSS geotagging errors of several meters down to 2-5 cm via auxiliary GNSS data collection in flight. Better accuracy with dramatically reduced additional costs!
- **Anti-Collision-Lights**
Our Trinity F90+ UAV has integrated flashing anti-collision strobe and position lights.
- **Live-Air-Traffic**
Now it is possible to automatically integrate the Live-Air-Traffic-Info into QBase when pingUSB is connected. pingUSB is the world's smallest, lightest and most affordable USB dual-band ADS-B receiver. pingUSB provides high-quality tracking data for use with software such as Virtual Radar Server and services including ADS-B Exchange.
- **iBase**
iBase is a reference GNSS station, it allows for the relative (and at externally georeferenced points absolute) geotagging precision of aforementioned PPK quality via logging the GNSS reference measurements on the ground to later use them in QBase flight data post-processing.
- **QBase - Ground Control Station**
Mission planning software, runs on any Windows PC/Laptop
 - Corridor Planning, Live-Air-Traffic, Resume Mission
- **Remote Controller (RC)**
- **Battery Pack + Battery Charger**
- **Lightweight Transport Case**
- **Warranty (1 year)**
- **Technical Support**

If remote ID is required by law, Quantum-Systems will offer an upgrade option free of charge for all Trinity F90+ being delivered after April 1st 2021.

TECHNICAL DATA

	LOCKED <60 MINUTES	UNLOCKED 90+ MINUTES ¹
Max. Take-off Weight	5.0 kg (11.0lbs)	5.0 kg (11.0lbs)
Max. Flight Time	<60 min	90+ min ¹
Max. Range = Area	70 km = 500 ha	100 km = 700 ha
Maximum flight altitude (MSL)	4500 m (14763.8 ft) ²	4500 m (14763.8 ft) ²
Command and Control Range	5-7.5 km (3.1-4.7 mi)	5-7.5 km (3.1-4.7 mi)
Payload (with compartment)	max. 700g (1.54lbs)	max. 700g (1.54lbs)
Optimal Cruise Speed	17 m/s (33 kn)	17 m/s (33 kn)
Wind Tolerance (ground)	up to 9 m/s (17.5 kn) ³	up to 9 m/s (17.5 kn) ³
Wind Tolerance (cruise)	12 m/s (23.3 kn)	12 m/s (23.3 kn)
Operating temperature range	-12°C to 50°C (10.4°F to 122°F)	-12°C to 50°C (10.4°F to 122°F)
Wingspan	2.394 m (7.85 ft)	2.394 m (7.85 ft)
Transport Case Dimension	1002 x 830 x 270 mm (39.4 x 32.7 x 10.6 inch)	1002 x 830 x 270 mm (39.4 x 32.7 x 10.6 inch)
Transport Case Weight (3 batteries)	22.3 kg (49.1 lbs)	22.3 kg (49.1 lbs)

¹ Subject to export regulation, may require export permission.

² Please be aware that the flight time and max. wind tolerance are reduced with increasing flight altitude. Depending on the weather conditions; tested at 15°C (59°F). For further details read the user manual chapter 3.1.

³ Please be aware that the max. wind tolerance is reduced with increasing flight altitude.

OPTION



Trinity F90+
Art.: 4260574661427



Trinity F90+ ADS-B
Art.: 4260574661748
Mandatory to buy the Mode S ADS-B out Transponder



DLSII Kit (Plug & Play)
for enhanced light calibration
Art.: 4260574663094
Mandatory for MicaSense camera to achieve optimal results



Calibrated Reflectance Panel (CRP)
Art.: 4260574660758
Mandatory for MicaSense camera to achieve optimal results



Ping5S MODE S ADS-B out Transponder Art.: 4260574662059

Ping5S MODE S ADS-B out Transponder Art.: 4260574662059
(subsequent upgrade)

READY COMPARTMENTS



Payload Compartment
3D Print payload (90 g) including multi-payload interface board to integrate pre-defined cameras. Excl. cameras.

Sony RX1R II Ready Art.: 4260574662134

MicaSense RedEdge-MX Dual Ready
Art.: 4260574662127

MicaSense RedEdge-MX Ready
Art.: 4260574662141

MicaSense Altum Ready
Art.: 4260574662097

COMPARTMENTS

All sensors are delivered integrated in the 3D Print Payload Compartment including the multifunctional interface board.



Sony UMC Art.: 4260574661571

Sony UMC-R10C 20.1 MP Sensor with 16 mm fixed focal length.



Sony RX1R II Art.: 4260574661588

CMOS full format sensor and fixed focal length lens. 42.4 MP resolution



Sony UMC + TX-Thermal

Art.: 4260574663629

This package includes the TX Thermal Payload with the Sony UMC. Thus, an area can be mapped in parallel both thermal and via RGB.



MicaSense RedEdge-MX

Art.: 4260574661595

Captures five narrow spectral bands; Excl. DLS II and Calibrated Reflectance Panel (CRP).



MicaSense Dual Camera Kit

Art.: 4260574662073

MicaSense RedEdge-MX + RedEdge-MX Blue Synchronized capture of all 10 bands for pixel aligned imagery. Excl. DLS II and CRP.



MicaSense RedEdge-MX Blue Ready

Art.: 4260574662103

Ready for MicaSense RedEdge-MX camera. New coastal blue band, a new green band and three new bands in the red to red-edge region of the spectrum. Excl. DLS II and CRP. Incl. RedEdge-MX Blue. Excl. RedEdge-MX



Double Payload Sony UMC + MicaSense RedEdge-MX

Art.: 4260574661601

Excl. DLS II and CRP.



Sony UMC + MicaSense RedEdge-MX Ready

Art.: 4260574662080

Ready for MicaSense RedEdge-MX camera. Incl. Sony UMC. Excl. Red-Edge-MX.



MicaSense Altum Art.: 4260574661977

Altum integrates a radiometric thermal camera with five high-resolution narrow bands, producing advanced thermal, multispectral and high-resolution imagery in one flight for advanced analytics. Excl. DLS II and CRP.



Qube 240 LiDAR Art.: 4260574663049



ACCESSORIES



Signal Stickers Art.: 4260574661960
4 pieces of signal stickers. 2x green (top & bottom) for left wing, 2x red (top & bottom) for right wing.



Additional Training Art.: 1-60-7
Training for two persons. Improve your mission planning and / or learn how to operate your Quantum product properly.



Post-Processing Basic Art.: 1-60-8
Improve your photogrammetric analysis and learn how to make the necessary adjustments for the expected accuracy.



Spare Parts & Service
Please get in touch with us directly. Our support team will create an individual repair or service solution for you depending on your request. Please contact support@quantum-systems.com

SPARE PARTS

Elevator* Art.: 4260574661410

Battery Pack* Art.: 4260574661335
Capacity 12.000 mAh

QS Battery Charging Station + Power Supply incl. 12V Clamp Power Cords

Easily Charge / Discharge your Trinity F90+ Battery packs.

EU (Type F) Art.: 4260574660666

US (Type B) Art.: 4260574660673

UK (Type I) Art.: 4260574660680

Outside wing*

(left Art.: 4260574661397 Or right Art.: 4260574661380)

Strobe Lights* Art.: 4260574661052

RED, GREEN and WHITE, incl. charger, excl. micro-USB cable

*Can be replaced by the customer.

Modifications and 3rd party products will void warranty.

REPLACEMENT COVERAGE PLAN



Replacement Coverage Plan #1

Art.: 4260574663124 Purchase with Trinity

Replacement Coverage Plan #2

Art.: 4260574663131 Purchase with Trinity

Replacement Coverage Plan #1

Art.: 4260574663148

Subsequent Purchase or Extension

Replacement Coverage Plan #2

Art.: 4260574663155

Subsequent Purchase or Extension

Replacement Coverage Plan #1

Art.: 4260574663162 RCP Extension

(If the drone replacement was not claimed in the previous year)

Replacement Coverage Plan #2

Art.: 4260574663179 RCP Extension

(If the drone replacement was not claimed in the previous year)

SOFTWARE



Qube 240

CloudStation Core

Art.: 4260574663322

special version for Qube 240 annual license (2nd and following years)

CloudStation Core

(Perpetual License) Art.: 4260574663339

CloudStation Strip Adjustment Module

(Annual License) Art.: 4260574663056

CloudStation Strip Adjustment Module

(Perpetual License) Art.: 4260574663346

CloudStation Terrain Module

(Annual License) Art.: 4260574663353

CloudStation Terrain Module

(Perpetual License) Art.: 4260574663360

Applanix POSPac UAV

(Annual Subscription) Art.: 4260574663063

Applanix POSPac UAV

(Perpetual License) Art.: 4260574663070