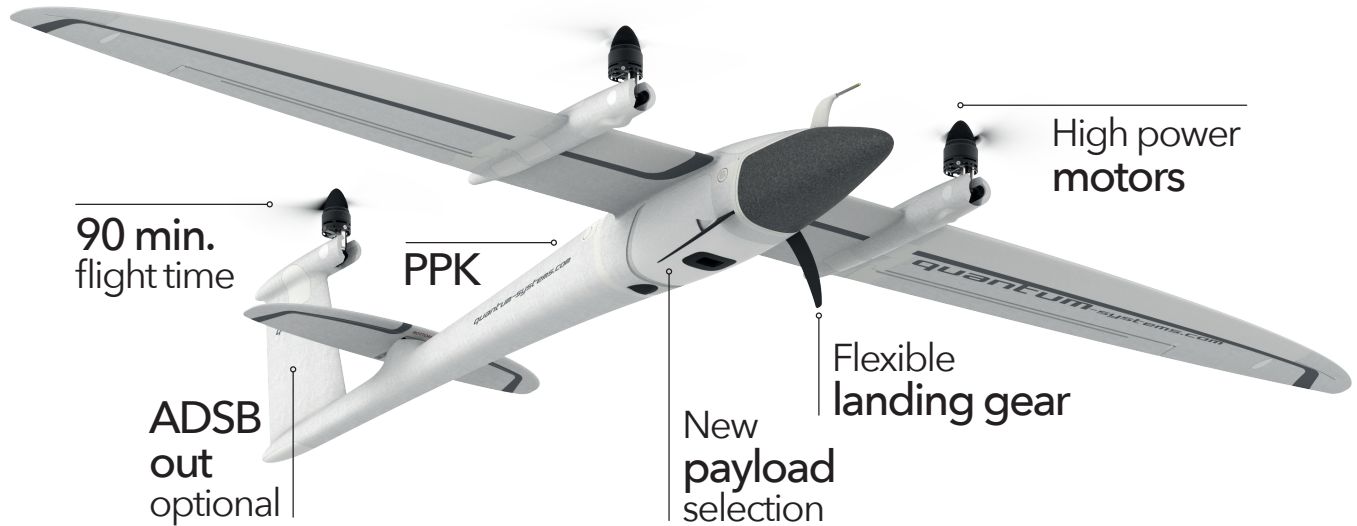


Trinity F90+

quantum
systems

|| The Trinity has the potential to blow any conventional fixed-wing UAV out of the market. ||

Christopher Clark, Rocketmine



PACKAGE CONTENT









- **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**

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
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 (1.54 lbs)	max. 700g (1.54 lbs)
Optimal Cruise Speed	17 m/s (33 kn)	17 m/s (33 kn)
Wind Tolerance (ground)	up to 9 m/s (17.5 kn)	up to 9 m/s (17.5 kn)
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	1002x830x270 mm (39.4x32.7x10.6 inch)	1002x830x270 mm (39.4x32.7x10.6 inch)
Transport Case Weight (3 batteries)	22.3 kg (49.1 lbs)	22.3 kg (49.1 lbs)




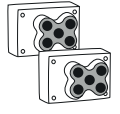

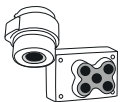


¹ Subject to export regulation, may require export permission.

OPTION

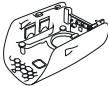
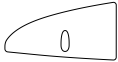



	Trinity F90+ Art.: 4260574661427
	Trinity F90+ DLS II Art.: 4260574661434 Mandatory to buy the DLS II
	Trinity F90+ ADS-B Art.: 4260574661748 Mandatory to buy the Mode S ADS-B out Transponder
	Trinity F90+ ADS-B + DLS II Art.: 4260574661755 Mandatory to buy the Mode S ADS-B out Transponder and the DLS II
	DLS II for enhanced light calibration Art.: 4260574662066 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)

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
	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.

ACCESSORIES

	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
	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.