NARMA
New AeRo Mission Accomplishment

AF100

Hardware

Drone type
Electric dual tilt-rotor (eVTOL)

Dimensions
100 x 86 x 30 cm [W x L x H]

Weight
4kg empty
5.9kg with batteries
7kg max. take-off weight

Payload
1.1kg max. weight

Propulsion
2x rotors during operation

Drone battery
1x Li-po battery (403Wh)

Avionics
1x GNSS systems
1x Airspeed sensors
2x Magnetometer

Connectivity
1x Cellular data link (4G or 5G)
1x RF data link & Video link (5.8Ghz 5km max.)

Operation

Mode
Multi-copter when hovering
Fixed wing when cruising

Flight speed
22 m/s default cruise speed
32 m/s max. cruise speed

Climb speed
2 m/s climb rate
1.5 m/s descent rate

Max. flight time & Range
20 min (hovering with 1kg payload)
35 min (level flight with 1kg payload)

Max. altitude
2000 m ASML

Auto-landing accuracy
1.5 m (0.1 m with RTK - optional)

Wind resistance
12 m/s average wind, 15 m/s gusts

Operating temperature
-5 ~ 40° Celsius

Weather limits
No operation during rain

kijung.kwon@narma.co.kr http://www.narma.co.kr 169-84 Gwahak-ro, Yuseong-gu, Daejeon, 34133 , Rep. of KOREA

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