

Model: NACT4-5KG Modular Drone



Product Rating	
Small Fixed Frame for ease of Travel	Optimal for 2Kg Payload
Compatible with Tether2K – Leviathan, Tether 3K – Seraphim	Operation Voltage: 24V
Included Battery Pack for 20 Minutes Flight Time	Maximum Take Off Weight: 5 Kg

Features and Benefits

- Micro Drone of only: 350 (W) x 273 (L) x 80mm (H)
- Maximum Wing Tip to Wing Tip: 700mm.
- 4 High Performance Rotors for high thrust to weight ratio
- High Efficiency for 2Kg Take Off Weight
- Tethering: Optimized for NACT Tether Drone Systems Tether 3K.
- MAVLink communications for enhanced integration experience

Typical Applications

- High Thrust
- Tether UAV and Robots
- Integration with robots
- Light Lifting and Operations

Product Description:

The NACT4-5KG Drone is an open frame Unmanned Aircraft System that is designed for high payload to weight ratio, and also stability in Tethered Drone Operation. The high thrust to weight ratio helps ensure drone stability for maximum payload effectiveness while operating in unpredictable wind conditions. NACT4-5KG drone has the following features:

- Small Size of only (Motor to Motor Dimensions) : 350 (W) x 273 (L) x 80mm (H)
- Open frame for flexibility of drone integration
- More than 100% Thrust Safety Factor

While the NACT4-5KG Drone is able to operate 20minutes with the included Battery packs, it is able to extend operation time with NACT Tether 2K – Leviathan and Tether 3K – Seraphim Tether Drone System, for up to 60m Tether Length. NACT Tether System supplies a variety of low noise voltages that are suitable for different payloads upon request.

SPECIFICATIONS

PARAMETER		TEST CONDITIONS	MIN	TYP	MAX	UNIT
Supply Power - Battery @ 0.8Kg with 2Kg Payload						
V _{IN,Batt}	Input Voltage, Battery		18	22.2	26.1	Vdc
		60m Height		1.5		KW
Thrust						
T _{Nominal}	Nominal Thrust	@ Battery, 25Vdc		10		Kg
		@ Tether, 800Vdc		10		Kg
T _{Max}	Maximum Thrust	@ Battery, 48Vdc			12	Kg
		@ Tether, 800Vdc			12	Kg
Tether 3K - Seraphim Aircraft Multiplier Card						
V _{OUT}	Output Voltage		20	24	26.1	Vdc
Mechanical						
T _A	Operating Free Air Temperature		0	+35	+65	°C
W	Weight	With Battery		4	5	Kg
L	Length, Deployed	Tip to Tip Length		605		mm
W	Width, Deployed	Tip to Tip Length		605		mm
H	Height, Deployed			80		mm
H _{Operation}	Operation Height				2000	Ft