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Boresight BQ400 UAT System Overview

Overview

The BQ400 is a sub 2 kg quadcopter Unmanned Aerial Target (UAT) designed to mimic the size and flight characteristics of popular commercially available quadcopters. The BQ400 was designed to be highly manoeuvrable in both automatic and Pilot-in-Command (PIC) control modes, allowing the design and execution of complex flight profiles. The BQ400 can reach straight-line ground speeds of up to 17.5 m/s in mild to moderate wind conditions.



Description

1. System Specifications

1.1. BQ400 UAT

The BQ400 aircraft is a standard X-frame configuration quadcopter. An overview of the BQ400 aircraft is shown below with all with its key specifications.

Parameter	Units	Value
Mass	Kg	1.3
Arm Diagonal	mm	400
Transmission Range	m	2500+
Operating Temperature	°C	0-40
Max Endurance	min	20+
Maximum Flight Speed	m/s	18
Service Ceiling	m	3000
Operating Frequency	868MHz , 902MHz, 915MHz and 2.4GHz	
Payload Capacity	g	250*
Swarming capability	Up to 12x BQ400 Raider Platforms**	

**The payload capability of the BQ400 Raider is estimated and has not been tested. Payload capability is dependent on the formfactor of the payload and mounting options.*
***The BQ400 Raider 'Swarming Capability' is dependent on the GCS and radio infrastructure configuration. The BQ400 Raider units within the swarm operate independently from each other with no communications between each unit.*

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