

BVQ418

Smart. Portable. Powerful.



AI-driven drones powered by 5G connectivity have the potential to revolutionize defence operations. BVQ418 exemplifies this evolution, offering a glimpse into the future of UAV operations. As technology advances, drones like BVQ418 will play a more prominent role in demanding projects, providing unique capabilities to safeguard national security and respond swiftly to evolving threats.

Technical specifications

Class (EU Reg. 2019/945)	3
Type	VTOL Quadcopter
Dimensions (length x width x height)	1550 x 1550 x 600 mm
Tare	5 kg
Maximum takeoff weight	15 kg
Payload weight	7 kg
Maximum linear speed	80 km/h
Maximum angular speed	540 ° / s
Maximum descent speed	14.5 km/h
Max ascent speed	14.5 km/h
Maximum supported wind speed	65 km/h
Autonomy	90 min
Quick payload changeover	(up to 3 payloads simultaneously)
On-board Computer (AI + SDK + ROS)	(Ubuntu 20.04)
Battery Type	6S Li-Ion
Nominal battery voltage	22.2 V
Max battery current	300 A
Battery capacity	60000 mAh (2 x 30000 mAh)
Battery weight	6 kg (2x 3kg)
Output voltages (for integration of other payloads)	24V, 12V, 5V, 3.3V
SSD	256/512 GB (add-on)
Interfaces for peripherals	USB 3.0 / MIPI CSI / Ethernet / SPI / I2C / CAN
Radio Link 1	2.4 GHz
Radio Link 2	433 MHz
Radio Distance	12 km (EU) 16 km (US)
RTK base station band	2.4 GHz (ZigBee)
ZigBee	✓

LoRA	Add-on
WiFi	✓
Bluetooth	✓
3G	✓
4G	✓
5G	✓
Satcoms	✗
Ground station connection capability	✓
Cloud control capability (cloud)	✓
Dual Stream	✓
Automatic missions	✓
GNSS constellations	GPS L1/L2, GLONASS, QZSS, Beidou, GALILEO
Position accuracy	5 cm
Position accuracy (without RTK)	20 cm
Operating Temperature	-10°C/+40°C
Storage temperature	-10°C/+60°C
Relative humidity supported in operation	<95%,
Development Norms	NATO (AEP 83)
UAV directive	Reg. 2019/945/EU Reg. 2019/947/EU
Radio	2014/53/EU ; EN301 893:2015 ; EN300 328:2015 ; EN300 440; EN303 413; EN300 220-1
EMC	2014/30/EU EN301 489-1 EN301489-3 EN301 489-17
Waste (WEEE)	2012/19/EU
Battery	2006/66/EC
RoHS	2011/65/CE EN62321
Label	ANSI/CTA-2063