
## BVT516 Technical specifications

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| **Class (EU Reg. 2019/945)** | 3 |
| **Type** | VTOL Fixed Wing |
| **Dimensions (length x width x height)** | 1450 x 3000 x 630 mm |
| **Empty Weight (no batteries)** | 8 Kg |
| **Maximum takeoff weight** | 16 Kg |
| **Payload weight** | 2 Kg |
| **Maximum linear speed** | 20 Km/h (quad); 20 Km/h (quad);120 Km/h (wing) |
| **Maximum angular speed** | 90 º / s |
| **Maximum descent speed** | 9 Km/h / 14.4 Km/h (quad/fixed wing) |
| **Max ascent speed** | 9 Km/h / 14.4 Km/h (quad/fixed wing) |
| **Maximum supported wind speed** | 35 Km/h / 50 Km/h (quad/fixed wing) |
| **Autonomy** | 180 min |
| **Quick payload changeover** | ✔ |
| **On-board Computer (AI + SDK + ROS)** | (Ubuntu 18.04) |
| **Battery Type** | 12S Li-Ion |
| **Nominal battery voltage** | 44.4 V |
| **Peak battery current** | 400 A |
| **Battery capacity** | 40000 mAh (2 x 20000 mAh) |
| **Battery weight** | 6 Kg (2 x 3Kg) |
| **Output voltages (for integration of other payloads)** | 24V, 12V, 5V, |
| **SSD** | 256/512 GB |
| **WiFi** | ✔ |
| **Bluetooth** | ✔ |

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| **3G** | ✔ |
| **4G** | ✔ |
| **5G** | ✔ |
| **Ground station connection capability** | ✔ |
| **Cloud control capability (cloud)** | ✔ |
| **Dual Stream** | ✔ |
| **Autonomous missions** | ✔ |
| **GNSS constellations** | GPS L1/L2, GLONASS, QZSS, Beidou, GALILEO |
| **Interfaces for peripherals** | Ethernet / I2C / CAN |
| **Multiple radio options** | L band / S band / C band (according to chosen radio) |
| **Max Radio Distance** | 12Km/30Km/100Km (according to chosen radio) |
| **Position accuracy** | 5 cm |
| **Position accuracy (without RTK)** | 50 cm |
| **Operating Temperature** | -10ºC/+40ºC |
| **Storage temperature** | -10ºC/+60ºC |
| **Relative humidity supported in operation** | <95% |
| **Development Norms** | NATO (AEP 83, AEP 89) |
| **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 |
| **Battery** | 2006/66/EC |
| **RoHS** | 2011/65/CE EN62321 |
| **Label** | ANSI/CTA-2063 |

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