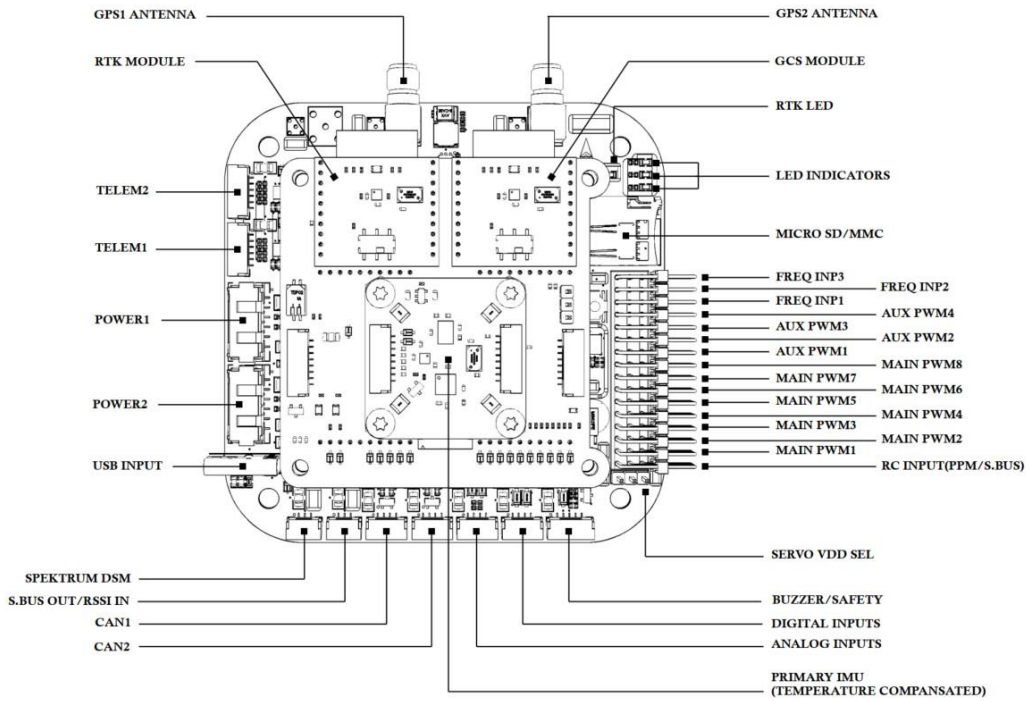


Stalya Bilisim  
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## Unified Twin RTK Flight Control Unit

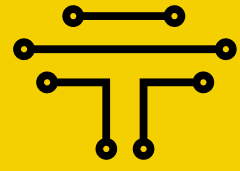
**Agriculture/Entertainment/Defence**



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## Leading the Way to Advancement

### uTRAP FMU Features

|                             |   |
|-----------------------------|---|
| <b>Main CPU</b>             | Cortex®-M7 core 32-bit 1024 DMIPS MCU   |
| <b>Failsafe CPU</b>         | Cortex®-M3 core 32-bit 90 DMIPS MCU   |
| <b>GNSS Subsystem</b>       | 2 x Dual band RTK GNSS receivers with external high gain helical antenna <ul style="list-style-type: none"><li>• 184-channel u-blox F9 engine</li><li>• Supports GPS L1C/A L2C, GLO L1OF L2OF, GAL E1B/C E5b, BDS B1I B2I</li><li>• Up to 0.01m + 1ppm CEP position accuracy</li><li>• Up to 20Hz navigation update</li></ul>   |
| <b>Radio-link Subsystem</b> | <ul style="list-style-type: none"><li>• Mavlink 2.0 supported Wi-Fi link interface<ul style="list-style-type: none"><li>○ 802.11 b/g/n (802.11n up to 150Mbps)</li><li>○ Frequency range: 2412 ~ 2448 MHz</li></ul></li><li>• Mavlink 2.0 supported 433/868/915MHz radio link interface</li></ul>   |
| <b>Sensor Subsystem</b>     | <ul style="list-style-type: none"><li>• IMU1: ICM-20689</li><li>• IMU2: ICM-20689</li><li>• IMU3: BMI088</li><li>• Magnetometer 1: LISMDL</li><li>• Magnetometer 2: LISMDL</li><li>• Barometer 1: MS5611</li><li>• Barometer 2: MS5611</li></ul>  |
| <b>I/O Interfaces</b>       | <ul style="list-style-type: none"><li>• 12 x PWM outputs</li><li>• 3 x Frequency/PWM inputs</li><li>• 1 x RC input that supports multiple protocols (SBUS/PPM/DSM)</li><li>• 1 x S.BUS output</li><li>• 2 x UART ports for Telemetry devices (NRA15, NRA24, MR72 etc.)</li><li>• 2 x CAN buses</li><li>• 2 x Power ports</li><li>• 2 x Analogue inputs</li><li>• 3 x Digital inputs</li><li>• 1 x USB port that supports on-board USB hub</li><li>• 1 x Micro SD/MMC slot</li><li>• 1 x Piezo Buzzer driver port</li><li>• 1 x Safety switch/LED port</li></ul> |
| <b>Power Inputs</b>         | <ul style="list-style-type: none"><li>• Direct Input: 4.75-5.25 VDC</li><li>• USB input: 4.75-5.25 VDC</li></ul>  |
| <b>Features</b>             | <ul style="list-style-type: none"><li>• Dual RTK GNSS based high precision heading calculation</li><li>• Industry proven <a href="#">Dronecode</a> foundation components-based Firmware/Software</li><li>• Temperature compensation and internal shock absorption for Primary IMU</li><li>• Robust I/O interfaces that have ESD/EFT protections</li><li>• Operating temperature: -10 ~ +55 °C</li><li>• Dimensions: 90x90x25 (mm)</li></ul>   |