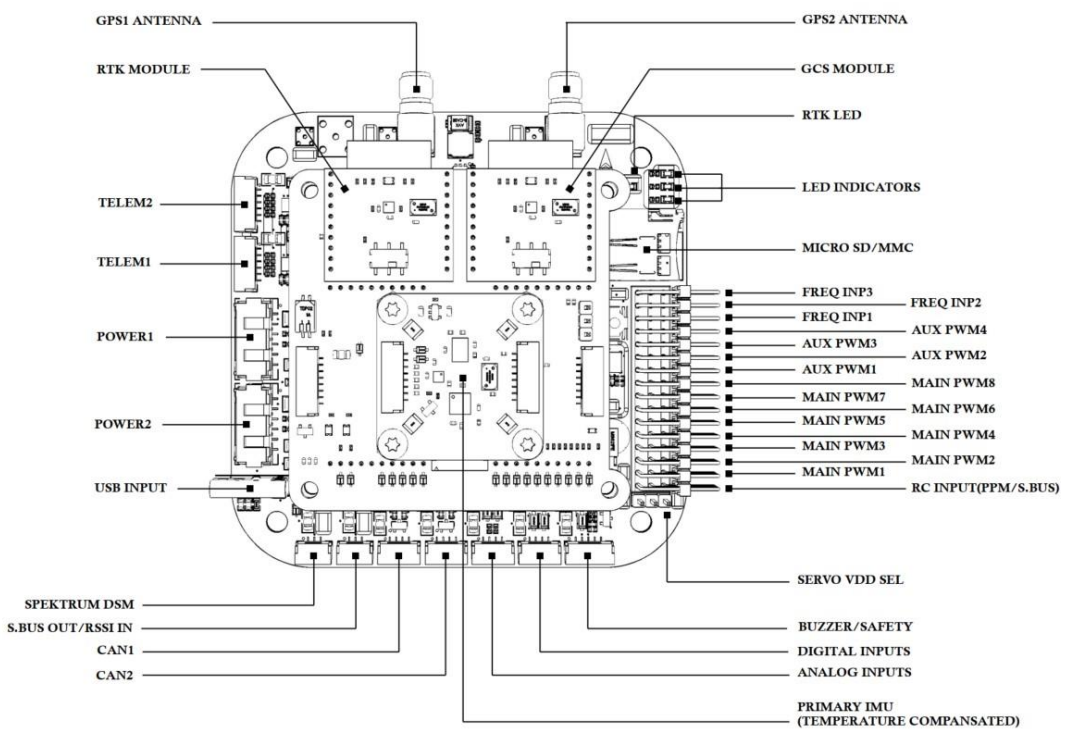


Stalya Bilisim
Teknolojileri A.Ş.



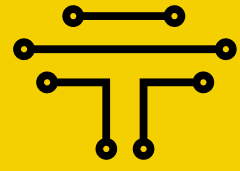
Unified Twin RTK Flight Management Unit

- ✓ Designed for harsh environments
- ✓ Produced with high technology process
- ✓ Bundled with all necessary modules and sensors
- ✓ IMU with temperature compensation and shock absorber
- ✓ GNSS based True Heading calculation for magnetic anomalies



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FMU Features

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