

```
#

# dump

# version
# Betaflight / STM32F405 (S405) 4.4.2 Jun  2 2023 / 08:41:20 (23d066d08) MSP API: 1.45

# config: YES

# start the command batch
batch start

board_name FLYW00F405S_AIO
manufacturer_id FLWO

# name: -

# resources
resource BEEPER 1 C13
resource MOTOR 1 A03
resource MOTOR 2 B00
resource MOTOR 3 A02
resource MOTOR 4 B01
resource MOTOR 5 B05
resource MOTOR 6 B07
resource MOTOR 7 C09
resource MOTOR 8 C08
resource SERVO 1 NONE
resource SERVO 2 NONE
resource SERVO 3 NONE
resource SERVO 4 NONE
resource SERVO 5 NONE
resource SERVO 6 NONE
resource SERVO 7 NONE
resource SERVO 8 NONE
resource PPM 1 B08
resource PWM 1 NONE
resource PWM 2 NONE
resource PWM 3 NONE
resource PWM 4 NONE
resource PWM 5 NONE
resource PWM 6 NONE
resource PWM 7 NONE
resource PWM 8 NONE
resource SONAR_TRIGGER 1 NONE
resource SONAR_ECHO 1 NONE
resource LED_STRIP 1 A09
```

resource SERIAL\_TX 1 B06  
resource SERIAL\_TX 2 D05  
resource SERIAL\_TX 3 B10  
resource SERIAL\_TX 4 A00  
resource SERIAL\_TX 5 NONE  
resource SERIAL\_TX 6 C06  
resource SERIAL\_TX 7 NONE  
resource SERIAL\_TX 8 NONE  
resource SERIAL\_TX 9 NONE  
resource SERIAL\_TX 10 NONE  
resource SERIAL\_TX 11 NONE  
resource SERIAL\_TX 12 NONE  
resource SERIAL\_RX 1 A10  
resource SERIAL\_RX 2 D06  
resource SERIAL\_RX 3 B11  
resource SERIAL\_RX 4 A01  
resource SERIAL\_RX 5 D02  
resource SERIAL\_RX 6 NONE  
resource SERIAL\_RX 7 NONE  
resource SERIAL\_RX 8 NONE  
resource SERIAL\_RX 9 NONE  
resource SERIAL\_RX 10 NONE  
resource SERIAL\_RX 11 NONE  
resource SERIAL\_RX 12 NONE  
resource INVERTER 1 NONE  
resource INVERTER 2 NONE  
resource INVERTER 3 NONE  
resource INVERTER 4 NONE  
resource INVERTER 5 NONE  
resource INVERTER 6 NONE  
resource INVERTER 7 NONE  
resource INVERTER 8 NONE  
resource INVERTER 9 NONE  
resource INVERTER 10 NONE  
resource INVERTER 11 NONE  
resource INVERTER 12 NONE  
resource I2C\_SCL 1 B08  
resource I2C\_SCL 2 NONE  
resource I2C\_SCL 3 NONE  
resource I2C\_SDA 1 B09  
resource I2C\_SDA 2 NONE  
resource I2C\_SDA 3 NONE  
resource LED 1 C14  
resource LED 2 NONE  
resource LED 3 NONE  
resource RX\_BIND 1 NONE  
resource RX\_BIND\_PLUG 1 NONE

resource TRANSPONDER 1 NONE  
resource SPI\_SCK 1 A05  
resource SPI\_SCK 2 NONE  
resource SPI\_SCK 3 C10  
resource SPI\_MISO 1 A06  
resource SPI\_MISO 2 NONE  
resource SPI\_MISO 3 C11  
resource SPI\_MOSI 1 A07  
resource SPI\_MOSI 2 NONE  
resource SPI\_MOSI 3 C12  
resource ESCSERIAL 1 B08  
resource ADC\_BATT 1 C03  
resource ADC\_RSSI 1 C00  
resource ADC\_CURR 1 C02  
resource ADC\_EXT 1 NONE  
resource BARO\_CS 1 NONE  
resource BARO\_EOC 1 NONE  
resource BARO\_XCLR 1 NONE  
resource COMPASS\_CS 1 NONE  
resource COMPASS\_EXTI 1 NONE  
resource SDCARD\_CS 1 NONE  
resource SDCARD\_DETECT 1 NONE  
resource PINIO 1 C07  
resource PINIO 2 NONE  
resource PINIO 3 NONE  
resource PINIO 4 NONE  
resource USB\_MSC\_PIN 1 NONE  
resource FLASH\_CS 1 B03  
resource OSD\_CS 1 B14  
resource RX\_SPI\_CS 1 NONE  
resource RX\_SPI\_EXTI 1 NONE  
resource RX\_SPI\_BIND 1 NONE  
resource RX\_SPI\_LED 1 NONE  
resource RX\_SPI\_CC2500\_TX\_EN 1 NONE  
resource RX\_SPI\_CC2500\_LNA\_EN 1 NONE  
resource RX\_SPI\_CC2500\_ANT\_SEL 1 NONE  
resource RX\_SPI\_EXPRESSLRS\_RESET 1 NONE  
resource RX\_SPI\_EXPRESSLRS\_BUSY 1 NONE  
resource GYRO\_EXTI 1 B13  
resource GYRO\_EXTI 2 NONE  
resource GYRO\_CS 1 B12  
resource GYRO\_CS 2 NONE  
resource USB\_DETECT 1 A08  
resource VTX\_POWER 1 NONE  
resource VTX\_CS 1 NONE  
resource VTX\_DATA 1 NONE  
resource VTX\_CLK 1 NONE

```
resource PULLUP 1 NONE
resource PULLUP 2 NONE
resource PULLUP 3 NONE
resource PULLUP 4 NONE
resource PULLDOWN 1 NONE
resource PULLDOWN 2 NONE
resource PULLDOWN 3 NONE
resource PULLDOWN 4 NONE
```

```
# timer
timer B00 AF2
# pin B00: TIM3 CH3 (AF2)
timer B01 AF2
# pin B01: TIM3 CH4 (AF2)
timer A03 AF1
# pin A03: TIM2 CH4 (AF1)
timer A02 AF1
# pin A02: TIM2 CH3 (AF1)
timer B05 AF2
# pin B05: TIM3 CH2 (AF2)
timer B07 AF2
# pin B07: TIM4 CH2 (AF2)
timer C09 AF3
# pin C09: TIM8 CH4 (AF3)
timer C08 AF3
# pin C08: TIM8 CH3 (AF3)
timer A09 AF1
# pin A09: TIM1 CH2 (AF1)
```

```
# dma
dma SPI_MOSI 1 NONE
dma SPI_MOSI 2 NONE
dma SPI_MOSI 3 NONE
dma SPI_MISO 1 NONE
dma SPI_MISO 2 NONE
dma SPI_MISO 3 NONE
dma SPI_TX 1 NONE
dma SPI_TX 2 NONE
dma SPI_TX 3 NONE
dma SPI_RX 1 NONE
dma SPI_RX 2 NONE
dma SPI_RX 3 NONE
dma ADC 1 0
# ADC 1: DMA2 Stream 0 Channel 0
dma ADC 2 NONE
dma ADC 3 NONE
dma UART_TX 1 NONE
```

```
dma UART_TX 2 NONE
dma UART_TX 3 NONE
dma UART_TX 4 NONE
dma UART_TX 5 NONE
dma UART_TX 6 NONE
dma UART_TX 7 NONE
dma UART_TX 8 NONE
dma UART_RX 1 NONE
dma UART_RX 2 NONE
dma UART_RX 3 NONE
dma UART_RX 4 NONE
dma UART_RX 5 NONE
dma UART_RX 6 NONE
dma UART_RX 7 NONE
dma UART_RX 8 NONE
dma pin B00 0
# pin B00: DMA1 Stream 7 Channel 5
dma pin B01 0
# pin B01: DMA1 Stream 2 Channel 5
dma pin A03 1
# pin A03: DMA1 Stream 6 Channel 3
dma pin A02 0
# pin A02: DMA1 Stream 1 Channel 3
dma pin B05 0
# pin B05: DMA1 Stream 5 Channel 5
dma pin B07 0
# pin B07: DMA1 Stream 3 Channel 2
dma pin C09 0
# pin C09: DMA2 Stream 7 Channel 7
dma pin C08 0
# pin C08: DMA2 Stream 2 Channel 0
dma pin A09 0
# pin A09: DMA2 Stream 6 Channel 0

# feature
feature -RX_PPM
feature -INFLIGHT_ACC_CAL
feature -RX_SERIAL
feature -MOTOR_STOP
feature -SERVO_TILT
feature -SOFTSERIAL
feature -GPS
feature -RANGEFINDER
feature -TELEMETRY
feature -3D
feature -RX_PARALLEL_PWM
feature -RX_MSP
```

```
feature -RSSI_ADC
feature -LED_STRIP
feature -DISPLAY
feature -OSD
feature -CHANNEL_FORWARDING
feature -TRANSPONDER
feature -AIRMODE
feature -RX_SPI
feature -ESC_SENSOR
feature -ANTI_GRAVITY
feature RX_SERIAL
feature LED_STRIP
feature OSD
feature AIRMODE
feature ANTI_GRAVITY
```

```
# serial
```

```
serial 20 1 115200 57600 0 115200
serial 0 64 115200 57600 0 115200
serial 1 0 115200 57600 0 115200
serial 2 0 115200 57600 0 115200
serial 3 0 115200 57600 0 115200
serial 4 0 115200 57600 0 115200
serial 5 8192 115200 57600 0 115200
```

```
# mixer
```

```
mixer QUADX
```

```
mmix reset
```

```
# servo
```

```
servo 0 1000 2000 1500 100 -1
servo 1 1000 2000 1500 100 -1
servo 2 1000 2000 1500 100 -1
servo 3 1000 2000 1500 100 -1
servo 4 1000 2000 1500 100 -1
servo 5 1000 2000 1500 100 -1
servo 6 1000 2000 1500 100 -1
servo 7 1000 2000 1500 100 -1
```

```
# servo mixer
```

```
smix reset
```

```
# beeper
```

```
beeper GYRO_CALIBRATED
```

```
beeper RX_LOST
beeper RX_LOST_LANDING
beeper DISARMING
beeper ARMING
beeper ARMING_GPS_FIX
beeper ARMING_GPS_NO_FIX
beeper BAT_CRIT_LOW
beeper BAT_LOW
beeper GPS_STATUS
beeper RX_SET
beeper ACC_CALIBRATION
beeper ACC_CALIBRATION_FAIL
beeper READY_BEEP
beeper MULTI_BEEPS
beeper DISARM_REPEAT
beeper ARMED
beeper SYSTEM_INIT
beeper ON_USB
beeper BLACKBOX_ERASE
beeper CRASH_FLIP
beeper CAM_CONNECTION_OPEN
beeper CAM_CONNECTION_CLOSE
beeper RC_SMOOTHING_INIT_FAIL
```

```
# beacon
```

```
beacon -RX_LOST
```

```
beacon -RX_SET
```

```
# map
```

```
map AETR1234
```

```
# led
```

```
led 0 7,6::CO:11
```

```
led 1 8,6::CO:11
```

```
led 2 0,0::C:0
```

```
led 3 0,0::C:0
```

```
led 4 0,0::C:0
```

```
led 5 0,0::C:0
```

```
led 6 0,0::C:0
```

```
led 7 0,0::C:0
```

```
led 8 0,0::C:0
```

```
led 9 0,0::C:0
```

```
led 10 0,0::C:0
```

```
led 11 0,0::C:0
```

```
led 12 0,0::C:0
```

```
led 13 0,0::C:0
```

```
led 14 0,0::C:0
```

```
led 15 0,0::C:0
led 16 0,0::C:0
led 17 0,0::C:0
led 18 0,0::C:0
led 19 0,0::C:0
led 20 0,0::C:0
led 21 0,0::C:0
led 22 0,0::C:0
led 23 0,0::C:0
led 24 0,0::C:0
led 25 0,0::C:0
led 26 0,0::C:0
led 27 0,0::C:0
led 28 0,0::C:0
led 29 0,0::C:0
led 30 0,0::C:0
led 31 0,0::C:0
```

```
# color
```

```
color 0 0,0,0
color 1 0,255,255
color 2 0,0,255
color 3 30,0,255
color 4 60,0,255
color 5 90,0,255
color 6 120,0,255
color 7 150,0,255
color 8 180,0,255
color 9 210,0,255
color 10 240,0,255
color 11 270,0,255
color 12 300,0,255
color 13 330,0,255
color 14 0,0,0
color 15 0,0,0
```

```
# mode_color
```

```
mode_color 0 0 1
mode_color 0 1 11
mode_color 0 2 2
mode_color 0 3 13
mode_color 0 4 10
mode_color 0 5 3
mode_color 1 0 5
mode_color 1 1 11
mode_color 1 2 3
mode_color 1 3 13
```



```
mode_color 1 4 10
mode_color 1 5 3
mode_color 2 0 10
mode_color 2 1 11
mode_color 2 2 4
mode_color 2 3 13
mode_color 2 4 10
mode_color 2 5 3
mode_color 3 0 8
mode_color 3 1 11
mode_color 3 2 4
mode_color 3 3 13
mode_color 3 4 10
mode_color 3 5 3
mode_color 4 0 7
mode_color 4 1 11
mode_color 4 2 3
mode_color 4 3 13
mode_color 4 4 10
mode_color 4 5 3
mode_color 5 0 0
mode_color 5 1 0
mode_color 5 2 0
mode_color 5 3 0
mode_color 5 4 0
mode_color 5 5 0
mode_color 6 0 6
mode_color 6 1 10
mode_color 6 2 1
mode_color 6 3 0
mode_color 6 4 0
mode_color 6 5 2
mode_color 6 6 3
mode_color 6 7 6
mode_color 6 8 0
mode_color 6 9 0
mode_color 6 10 0
mode_color 7 0 3
```

```
# aux
```

```
aux 0 0 1 1300 2100 0 0
aux 1 2 1 1700 2100 0 0
aux 2 35 3 1700 2100 0 0
aux 3 40 0 1700 2100 0 0
aux 4 0 0 900 900 0 0
aux 5 0 0 900 900 0 0
aux 6 0 0 900 900 0 0
```

```
aux 7 0 0 900 900 0 0
aux 8 0 0 900 900 0 0
aux 9 0 0 900 900 0 0
aux 10 0 0 900 900 0 0
aux 11 0 0 900 900 0 0
aux 12 0 0 900 900 0 0
aux 13 0 0 900 900 0 0
aux 14 0 0 900 900 0 0
aux 15 0 0 900 900 0 0
aux 16 0 0 900 900 0 0
aux 17 0 0 900 900 0 0
aux 18 0 0 900 900 0 0
aux 19 0 0 900 900 0 0
```

```
# adjrange
```

```
adjrange 0 0 0 900 900 0 0 0 0
adjrange 1 0 0 900 900 0 0 0 0
adjrange 2 0 0 900 900 0 0 0 0
adjrange 3 0 0 900 900 0 0 0 0
adjrange 4 0 0 900 900 0 0 0 0
adjrange 5 0 0 900 900 0 0 0 0
adjrange 6 0 0 900 900 0 0 0 0
adjrange 7 0 0 900 900 0 0 0 0
adjrange 8 0 0 900 900 0 0 0 0
adjrange 9 0 0 900 900 0 0 0 0
adjrange 10 0 0 900 900 0 0 0 0
adjrange 11 0 0 900 900 0 0 0 0
adjrange 12 0 0 900 900 0 0 0 0
adjrange 13 0 0 900 900 0 0 0 0
adjrange 14 0 0 900 900 0 0 0 0
adjrange 15 0 0 900 900 0 0 0 0
adjrange 16 0 0 900 900 0 0 0 0
adjrange 17 0 0 900 900 0 0 0 0
adjrange 18 0 0 900 900 0 0 0 0
adjrange 19 0 0 900 900 0 0 0 0
adjrange 20 0 0 900 900 0 0 0 0
adjrange 21 0 0 900 900 0 0 0 0
adjrange 22 0 0 900 900 0 0 0 0
adjrange 23 0 0 900 900 0 0 0 0
adjrange 24 0 0 900 900 0 0 0 0
adjrange 25 0 0 900 900 0 0 0 0
adjrange 26 0 0 900 900 0 0 0 0
adjrange 27 0 0 900 900 0 0 0 0
adjrange 28 0 0 900 900 0 0 0 0
adjrange 29 0 0 900 900 0 0 0 0
```

```
# rxrange
```

```
rxrange 0 1000 2000
rxrange 1 1000 2000
rxrange 2 1000 2000
rxrange 3 1000 2000
```

```
# vxttable
```

```
vxttable bands 5
```

```
vxttable channels 8
```

```
vxttable band 1 BOSCAM_A A CUSTOM 5865 5845 5825 5805 5785 5765 5745 5725
```

```
vxttable band 2 BOSCAM_B B CUSTOM 5733 5752 5771 5790 5809 5828 5847 5866
```

```
vxttable band 3 BOSCAM_E E CUSTOM 5705 5685 5665 5645 5885 5905 5925 5945
```

```
vxttable band 4 FATSHARK F CUSTOM 5740 5760 5780 5800 5820 5840 5860 5880
```

```
vxttable band 5 RACEBAND R CUSTOM 5658 5695 5732 5769 5806 5843 5880 5917
```

```
vxttable powerlevels 6
```

```
vxttable powervalues 25 50 100 200 400 1
```

```
vxttable powerlabels 25 50 100 200 400 OMW
```

```
# vtx
```

```
vtx 0 0 0 0 0 900 900
```

```
vtx 1 0 0 0 0 900 900
```

```
vtx 2 0 0 0 0 900 900
```

```
vtx 3 0 0 0 0 900 900
```

```
vtx 4 0 0 0 0 900 900
```

```
vtx 5 0 0 0 0 900 900
```

```
vtx 6 0 0 0 0 900 900
```

```
vtx 7 0 0 0 0 900 900
```

```
vtx 8 0 0 0 0 900 900
```

```
vtx 9 0 0 0 0 900 900
```

```
# rxfail
```

```
rxfail 0 a
```

```
rxfail 1 a
```

```
rxfail 2 a
```

```
rxfail 3 a
```

```
rxfail 4 h
```

```
rxfail 5 h
```

```
rxfail 6 h
```

```
rxfail 7 h
```

```
rxfail 8 h
```

```
rxfail 9 h
```

```
rxfail 10 h
```

```
rxfail 11 h
```

```
rxfail 12 h
```

```
rxfail 13 h
```

```
rxfail 14 h
```

```
rxfail 15 h
```

```
rxfail 16 h
```

rxfail 17 h

```
# master
set gyro_hardware_lpf = NORMAL
set gyro_lpf1_type = PT1
set gyro_lpf1_static_hz = 250
set gyro_lpf2_type = PT1
set gyro_lpf2_static_hz = 500
set gyro_notch1_hz = 0
set gyro_notch1_cutoff = 0
set gyro_notch2_hz = 0
set gyro_notch2_cutoff = 0
set gyro_calib_duration = 125
set gyro_calib_noise_limit = 48
set gyro_offset_yaw = 0
set gyro_overflow_detect = ALL
set yaw_spin_recovery = AUTO
set yaw_spin_threshold = 1950
set gyro_to_use = FIRST
set dyn_notch_count = 3
set dyn_notch_q = 300
set dyn_notch_min_hz = 150
set dyn_notch_max_hz = 300
set gyro_lpf1_dyn_min_hz = 250
set gyro_lpf1_dyn_max_hz = 500
set gyro_lpf1_dyn_expo = 5
set gyro_filter_debug_axis = ROLL
set acc_hardware = AUTO
set acc_lpf_hz = 25
set acc_trim_pitch = 0
set acc_trim_roll = 0
set acc_calibration = -59,-19,-38,1
set align_mag = DEFAULT
set mag_align_roll = 0
set mag_align_pitch = 0
set mag_align_yaw = 0
set mag_bustype = I2C
set mag_i2c_device = 1
set mag_i2c_address = 0
set mag_spi_device = 0
set mag_hardware = AUTO
set mag_calibration = 0,0,0
set baro_bustype = I2C
set baro_spi_device = 0
set baro_i2c_device = 1
set baro_i2c_address = 0
set baro_hardware = AUTO
```

```
set mid_rc = 1500
set min_check = 1050
set max_check = 1900
set rssi_channel = 0
set rssi_src_frame_errors = OFF
set rssi_scale = 100
set rssi_offset = 0
set rssi_invert = OFF
set rssi_src_frame_lpf_period = 30
set rssi_smoothing = 125
set rc_smoothing = ON
set rc_smoothing_auto_factor = 30
set rc_smoothing_auto_factor_throttle = 30
set rc_smoothing_setpoint_cutoff = 0
set rc_smoothing_feedforward_cutoff = 0
set rc_smoothing_throttle_cutoff = 0
set rc_smoothing_debug_axis = ROLL
set fpv_mix_degrees = 0
set max_aux_channels = 14
set serialrx_provider = CRSF
set serialrx_inverted = OFF
set spektrum_sat_bind = 0
set spektrum_sat_bind_autoreset = ON
set srxl2_unit_id = 1
set srxl2_baud_fast = ON
set sbus_baud_fast = OFF
set crsf_use_negotiated_baud = OFF
set airmode_start_throttle_percent = 25
set rx_min_usec = 885
set rx_max_usec = 2115
set serialrx_halfduplex = OFF
set msp_override_channels_mask = 0
set rx_spi_protocol = V202_250K
set rx_spi_bus = 0
set rx_spi_led_inversion = OFF
set adc_device = 1
set adc_vrefint_calibration = 0
set adc_tempsensor_calibration30 = 0
set adc_tempsensor_calibration110 = 0
set input_filtering_mode = OFF
set blackbox_sample_rate = 1/4
set blackbox_device = SPIFLASH
set blackbox_disable_pids = OFF
set blackbox_disable_rc = OFF
set blackbox_disable_setpoint = OFF
set blackbox_disable_bat = OFF
set blackbox_disable_mag = OFF
```

```
set blackbox_disable_alt = OFF
set blackbox_disable_rssi = OFF
set blackbox_disable_gyro = OFF
set blackbox_disable_acc = OFF
set blackbox_disable_debug = OFF
set blackbox_disable_motors = OFF
set blackbox_disable_gps = OFF
set blackbox_mode = NORMAL
set blackbox_high_resolution = OFF
set min_throttle = 1090
set max_throttle = 2000
set min_command = 1000
set dshot_idle_value = 800
set dshot_burst = OFF
set dshot_bidir = ON
set dshot_edt = OFF
set dshot_bitbang = AUTO
set dshot_bitbang_timer = AUTO
set use_unsynced_pwm = OFF
set motor_pwm_protocol = DSHOT300
set motor_pwm_rate = 480
set motor_pwm_inversion = OFF
set motor_poles = 12
set motor_output_reordering = 1, 3, 0, 2, 4, 5, 6, 7
set thr_corr_value = 0
set thr_corr_angle = 800
set failsafe_delay = 15
set failsafe_off_delay = 10
set failsafe_throttle = 1000
set failsafe_switch_mode = STAGE1
set failsafe_throttle_low_delay = 100
set failsafe_procedure = DROP
set failsafe_recovery_delay = 10
set failsafe_stick_threshold = 30
set align_board_roll = 0
set align_board_pitch = 0
set align_board_yaw = 0
set gimbal_mode = NORMAL
set bat_capacity = 0
set vbat_max_cell_voltage = 430
set vbat_full_cell_voltage = 410
set vbat_min_cell_voltage = 330
set vbat_warning_cell_voltage = 350
set vbat_hysteresis = 1
set current_meter = ADC
set battery_meter = ADC
set vbat_detect_cell_voltage = 300
```

```
set use_vbat_alerts = ON
set use_cbat_alerts = OFF
set cbat_alert_percent = 10
set vbat_cutoff_percent = 100
set force_battery_cell_count = 0
set vbat_display_lpf_period = 30
set vbat_sag_lpf_period = 2
set ibat_lpf_period = 10
set vbat_duration_for_warning = 0
set vbat_duration_for_critical = 0
set vbat_scale = 110
set vbat_divider = 10
set vbat_multiplier = 1
set ibata_scale = 400
set ibata_offset = 0
set ibatv_scale = 0
set ibatv_offset = 0
set battery_continue = OFF
set beeper_inversion = ON
set beeper_od = OFF
set beeper_frequency = 0
set beeper_dshot_beacon_tone = 1
set yaw_motors_reversed = ON
set mixer_type = LEGACY
set crashflip_motor_percent = 0
set crashflip_expo = 35
set 3d_deadband_low = 1406
set 3d_deadband_high = 1514
set 3d_neutral = 1460
set 3d_deadband_throttle = 50
set 3d_limit_low = 1000
set 3d_limit_high = 2000
set 3d_switched_mode = OFF
set servo_center_pulse = 1500
set servo_pwm_rate = 50
set servo_lowpass_hz = 0
set tri_unarmed_servo = ON
set channel_forwarding_start = 4
set reboot_character = 82
set serial_update_rate_hz = 100
set imu_dcm_kp = 2500
set imu_dcm_ki = 0
set small_angle = 25
set imu_process_denom = 2
set auto_disarm_delay = 5
set gyro_cal_on_first_arm = OFF
set gps_provider = UBLOX
```

```
set gps_sbas_mode = NONE
set gps_auto_config = ON
set gps_auto_baud = OFF
set gps_ublox_mode = AIRBORNE
set gps_ublox_use_galileo = OFF
set gps_set_home_point_once = OFF
set gps_use_3d_speed = OFF
set gps_sbas_integrity = OFF
set gps_rescue_min_start_dist = 15
set gps_rescue_alt_mode = MAX_ALT
set gps_rescue_initial_climb = 10
set gps_rescue_ascend_rate = 750
set gps_rescue_return_alt = 30
set gps_rescue_ground_speed = 750
set gps_rescue_max_angle = 45
set gps_rescue_roll_mix = 150
set gps_rescue_pitch_cutoff = 75
set gps_rescue_descent_dist = 20
set gps_rescue_descend_rate = 150
set gps_rescue_landing_alt = 4
set gps_rescue_disarm_threshold = 20
set gps_rescue_throttle_min = 1100
set gps_rescue_throttle_max = 1700
set gps_rescue_throttle_hover = 1275
set gps_rescue_sanity_checks = RESCUE_SANITY_FS_ONLY
set gps_rescue_min_sats = 8
set gps_rescue_allow_arming_without_fix = OFF
set gps_rescue_throttle_p = 15
set gps_rescue_throttle_i = 15
set gps_rescue_throttle_d = 20
set gps_rescue_velocity_p = 8
set gps_rescue_velocity_i = 40
set gps_rescue_velocity_d = 12
set gps_rescue_yaw_p = 20
set gps_rescue_use_mag = ON
set deadband = 0
set yaw_deadband = 0
set yaw_control_reversed = OFF
set pid_process_denom = 4
set runaway_takeoff_prevention = ON
set runaway_takeoff_deactivate_delay = 500
set runaway_takeoff_deactivate_throttle_percent = 20
set simplified_gyro_filter = ON
set simplified_gyro_filter_multiplier = 100
set tlm_inverted = OFF
set tlm_halfduplex = ON
set frsky_default_lat = 0
```



```
set frsky_default_long = 0
set frsky_gps_format = 0
set frsky_unit = METRIC
set frsky_vfas_precision = 0
set hott_alarm_int = 5
set pid_in_tlm = OFF
set report_cell_voltage = OFF
set ibus_sensor = 1,2,3,0,0,0,0,0,0,0,0,0,0,0,0
set mavlink_mah_as_heading_divisor = 0
set telemetry_disabled_voltage = OFF
set telemetry_disabled_current = OFF
set telemetry_disabled_fuel = OFF
set telemetry_disabled_mode = OFF
set telemetry_disabled_acc_x = OFF
set telemetry_disabled_acc_y = OFF
set telemetry_disabled_acc_z = OFF
set telemetry_disabled_pitch = OFF
set telemetry_disabled_roll = OFF
set telemetry_disabled_heading = OFF
set telemetry_disabled_altitude = OFF
set telemetry_disabled_vario = OFF
set telemetry_disabled_lat_long = OFF
set telemetry_disabled_ground_speed = OFF
set telemetry_disabled_distance = OFF
set telemetry_disabled_esc_current = ON
set telemetry_disabled_esc_voltage = ON
set telemetry_disabled_esc_rpm = ON
set telemetry_disabled_esc_temperature = ON
set telemetry_disabled_temperature = OFF
set telemetry_disabled_cap_used = ON
set ledstrip_visual_beeper = OFF
set ledstrip_visual_beeper_color = WHITE
set ledstrip_grb_rgb = GRB
set ledstrip_profile = STATUS
set ledstrip_race_color = ORANGE
set ledstrip_beacon_color = WHITE
set ledstrip_beacon_period_ms = 500
set ledstrip_beacon_percent = 50
set ledstrip_beacon_armed_only = OFF
set ledstrip_brightness = 100
set sdcard_detect_inverted = OFF
set sdcard_mode = OFF
set sdcard_spi_bus = 0
set sdio_clk_bypass = OFF
set sdio_use_cache = OFF
set sdio_use_4bit_width = OFF
set osd_units = METRIC
```

```
set osd_rssi_alarm = 20
set osd_link_quality_alarm = 80
set osd_rssi_dbm_alarm = -60
set osd_rsnr_alarm = 4
set osd_cap_alarm = 2200
set osd_alt_alarm = 100
set osd_distance_alarm = 0
set osd_esc_temp_alarm = 0
set osd_esc_rpm_alarm = -1
set osd_esc_current_alarm = -1
set osd_core_temp_alarm = 70
set osd_ah_max_pit = 20
set osd_ah_max_rol = 40
set osd_ah_invert = OFF
set osd_logo_on_arwing = OFF
set osd_logo_on_arwing_duration = 5
set osd_tim1 = 2560
set osd_tim2 = 2561
set osd_vbat_pos = 2402
set osd_rssi_pos = 234
set osd_link_quality_pos = 2146
set osd_link_tx_power_pos = 234
set osd_rssi_dbm_pos = 234
set osd_rsnr_pos = 234
set osd_tim_1_pos = 2423
set osd_tim_2_pos = 2391
set osd_remaining_time_estimate_pos = 407
set osd_flymode_pos = 2296
set osd_anti_gravity_pos = 234
set osd_g_force_pos = 234
set osd_throttle_pos = 2327
set osd_vtx_channel_pos = 2178
set osd_crosshairs_pos = 205
set osd_ah_sbar_pos = 206
set osd_ah_pos = 78
set osd_current_pos = 2305
set osd_mah_drawn_pos = 2337
set osd_wh_drawn_pos = 234
set osd_motor_diag_pos = 234
set osd_craft_name_pos = 234
set osd_pilot_name_pos = 234
set osd_gps_speed_pos = 234
set osd_gps_lon_pos = 234
set osd_gps_lat_pos = 234
set osd_gps_sats_pos = 234
set osd_home_dir_pos = 234
set osd_home_dist_pos = 234
```

```
set osd_flight_dist_pos = 234
set osd_compass_bar_pos = 234
set osd_altitude_pos = 234
set osd_pid_roll_pos = 234
set osd_pid_pitch_pos = 234
set osd_pid_yaw_pos = 234
set osd_debug_pos = 234
set osd_power_pos = 234
set osd_pidrate_profile_pos = 234
set osd_warnings_pos = 14729
set osd_avg_cell_voltage_pos = 2370
set osd_pit_ang_pos = 234
set osd_rol_ang_pos = 234
set osd_battery_usage_pos = 234
set osd_disarmed_pos = 234
set osd_nheading_pos = 234
set osd_up_down_reference_pos = 205
set osd_ready_mode_pos = 234
set osd_esc_tmp_pos = 234
set osd_esc_rpm_pos = 234
set osd_esc_rpm_freq_pos = 234
set osd_rtc_date_time_pos = 234
set osd_adjustment_range_pos = 234
set osd_flip_arrow_pos = 234
set osd_log_status_pos = 234
set osd_stick_overlay_left_pos = 234
set osd_stick_overlay_right_pos = 234
set osd_stick_overlay_radio_mode = 2
set osd_rate_profile_name_pos = 234
set osd_pid_profile_name_pos = 234
set osd_profile_name_pos = 234
set osd_rcchannels_pos = 234
set osd_camera_frame_pos = 35
set osd_efficiency_pos = 234
set osd_total_flights_pos = 234
set osd_aux_pos = 234
set osd_sys_goggle_voltage_pos = 234
set osd_sys_vtx_voltage_pos = 234
set osd_sys_bitrate_pos = 234
set osd_sys_delay_pos = 162
set osd_sys_distance_pos = 194
set osd_sys_lq_pos = 234
set osd_sys_goggle_dvr_pos = 234
set osd_sys_vtx_dvr_pos = 234
set osd_sys_warnings_pos = 234
set osd_sys_vtx_temp_pos = 183
set osd_sys_fan_speed_pos = 234
```

```
set osd_stat_bitmask = 14124
set osd_profile = 1
set osd_profile_1_name = -
set osd_profile_2_name = -
set osd_profile_3_name = -
set osd_gps_sats_show_hdop = OFF
set osd_displayport_device = AUTO
set osd_rcchannels = -1,-1,-1,-1
set osd_camera_frame_width = 24
set osd_camera_frame_height = 11
set osd_stat_avg_cell_value = OFF
set osd_framerate_hz = 12
set osd_menu_background = TRANSPARENT
set osd_aux_channel = 1
set osd_aux_scale = 200
set osd_aux_symbol = 65
set osd_canvas_width = 30
set osd_canvas_height = 13
set osd_warn_bitmask = 8063
set osd_core_temp_pos = 2263
set osd_craftname_msgs = OFF
set system_hse_mhz = 0
set task_statistics = ON
set debug_mode = NONE
set rate_6pos_switch = OFF
set cpu_overclock = OFF
set pwr_on_arm_grace = 5
set enable_stick_arming = OFF
set vtx_band = 1
set vtx_channel = 1
set vtx_power = 5
set vtx_low_power_disarm = OFF
set vtx_softserial_alt = OFF
set vtx_freq = 5865
set vtx_pit_mode_freq = 0
set vtx_halfduplex = ON
set vtx_spi_bus = 0
set vcd_video_system = AUTO
set vcd_h_offset = 0
set vcd_v_offset = 0
set max7456_clock = NOMINAL
set max7456_spi_bus = 3
set max7456_preinit_opu = OFF
set displayport_msp_col_adjust = 0
set displayport_msp_row_adjust = 0
set displayport_msp_fonts = 0,0,0,0
set displayport_msp_use_device_blink = OFF
```



```
set i2c2_pullup = OFF
set i2c2_clockspeed_khz = 800
set i2c3_pullup = OFF
set i2c3_clockspeed_khz = 800
set mco2_on_pc9 = OFF
set spektrum_spi_protocol = 0
set spektrum_spi_mfg_id = 0,0,0,0
set spektrum_spi_num_channels = 0
set expresslrs_uid = 0,0,0,0,0,0
set expresslrs_domain = AU433
set expresslrs_rate_index = 0
set expresslrs_switch_mode = WIDE
set expresslrs_model_id = 255
set scheduler_relax_rx = 25
set scheduler_relax_osd = 25
set serialmsp_halfduplex = OFF
set timezone_offset_minutes = 0
set rpm_filter_harmonics = 3
set rpm_filter_q = 500
set rpm_filter_min_hz = 100
set rpm_filter_fade_range_hz = 50
set rpm_filter_lpf_hz = 150
set flysky_spi_tx_id = 0
set flysky_spi_rf_channels = 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
set stats_min_armed_time_s = -1
set stats_total_flights = 0
set stats_total_time_s = 0
set stats_total_dist_m = 0
set stats_mah_used = 0
set craft_name = -
set pilot_name = -
set altitude_source = DEFAULT
set altitude_prefer_baro = 100
set altitude_lpf = 300
set altitude_d_lpf = 100
set box_user_1_name = -
set box_user_2_name = -
set box_user_3_name = -
set box_user_4_name = -
```

profile 0

```
# profile 0
set profile_name = -
set dterm_lpf1_dyn_min_hz = 75
set dterm_lpf1_dyn_max_hz = 150
set dterm_lpf1_dyn_expo = 5
```

```
set dterm_lpf1_type = PT1
set dterm_lpf1_static_hz = 75
set dterm_lpf2_type = PT1
set dterm_lpf2_static_hz = 150
set dterm_notch_hz = 0
set dterm_notch_cutoff = 0
set vbat_sag_compensation = 0
set pid_at_min_throttle = ON
set anti_gravity_gain = 80
set anti_gravity_cutoff_hz = 5
set anti_gravity_p_gain = 100
set acc_limit_yaw = 0
set acc_limit = 0
set crash_dthreshold = 50
set crash_gthreshold = 400
set crash_setpoint_threshold = 350
set crash_time = 500
set crash_delay = 0
set crash_recovery_angle = 10
set crash_recovery_rate = 100
set crash_limit_yaw = 200
set crash_recovery = OFF
set iterm_rotation = OFF
set iterm_relax = RP
set iterm_relax_type = SETPOINT
set iterm_relax_cutoff = 25
set iterm_windup = 85
set iterm_limit = 400
set pidsum_limit = 500
set pidsum_limit_yaw = 400
set yaw_lowpass_hz = 100
set throttle_boost = 5
set throttle_boost_cutoff = 15
set p_pitch = 64
set i_pitch = 127
set d_pitch = 77
set f_pitch = 158
set p_roll = 62
set i_roll = 121
set d_roll = 62
set f_roll = 151
set p_yaw = 62
set i_yaw = 121
set d_yaw = 0
set f_yaw = 151
set angle_level_strength = 50
set horizon_level_strength = 50
```

```
set horizon_transition = 75
set level_limit = 55
set horizon_tilt_effect = 75
set horizon_tilt_expert_mode = OFF
set abs_control_gain = 0
set abs_control_limit = 90
set abs_control_error_limit = 20
set abs_control_cutoff = 11
set use_integrated_yaw = OFF
set integrated_yaw_relax = 200
set d_min_roll = 60
set d_min_pitch = 75
set d_min_yaw = 0
set d_max_gain = 37
set d_max_advance = 20
set motor_output_limit = 100
set auto_profile_cell_count = 0
set thrust_linear = 20
set transient_throttle_limit = 0
set feedforward_transition = 0
set feedforward_averaging = 2_POINT
set feedforward_smooth_factor = 60
set feedforward_jitter_factor = 10
set feedforward_boost = 15
set feedforward_max_rate_limit = 90
set dyn_idle_min_rpm = 0
set dyn_idle_p_gain = 50
set dyn_idle_i_gain = 50
set dyn_idle_d_gain = 50
set dyn_idle_max_increase = 150
set level_race_mode = OFF
set simplified_pids_mode = RPY
set simplified_master_multiplier = 115
set simplified_i_gain = 110
set simplified_d_gain = 175
set simplified_pi_gain = 120
set simplified_dmax_gain = 10
set simplified_feedforward_gain = 110
set simplified_pitch_d_gain = 110
set simplified_pitch_pi_gain = 100
set simplified_dterm_filter = ON
set simplified_dterm_filter_multiplier = 100
set tpa_mode = D
set tpa_rate = 65
set tpa_breakpoint = 1350
```

```
rateprofile 0
```



```
# rateprofile 0
set rateprofile_name = -
set thr_mid = 50
set thr_expo = 0
set rates_type = ACTUAL
set quickrates_rc_expo = OFF
set roll_rc_rate = 7
set pitch_rc_rate = 7
set yaw_rc_rate = 7
set roll_expo = 0
set pitch_expo = 0
set yaw_expo = 0
set roll_srate = 67
set pitch_srate = 67
set yaw_srate = 67
set throttle_limit_type = OFF
set throttle_limit_percent = 100
set roll_rate_limit = 1998
set pitch_rate_limit = 1998
set yaw_rate_limit = 1998
set roll_level_expo = 0
set pitch_level_expo = 0

# end the command batch
batch end
```

SAVE