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#

# DUMP

# version
# Betaflight / STM32F405 (S405) 4.5.1 Jul 29 2024 / 10:52:07 (77d01ba3b) MSP
API: 1.46
# config rev: bc5da0e

# start the command batch
batch start

board_name FLYWOOF405S_AIO
manufacturer_id FLWO

# name: FLYTIMES85-O4

# resources
resource BEEPER 1 C13
resource MOTOR 1 B01
resource MOTOR 2 B00
resource MOTOR 3 A02
resource MOTOR 4 A03
resource MOTOR 5 B05
resource MOTOR 6 B07
resource MOTOR 7 C09
resource MOTOR 8 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_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 C07
resource SERIAL_RX 7 NONE
resource SERIAL_RX 8 NONE
resource SERIAL_RX 9 NONE
resource SERIAL_RX 10 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 SOFTSERIAL_TX 1 NONE
resource SOFTSERIAL_TX 2 NONE
resource SOFTSERIAL_RX 1 NONE
resource SOFTSERIAL_RX 2 NONE
resource I2C_SCL 1 B08
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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 SPI_SCK 1 A05
resource SPI_SCK 2 NONE
resource SPI_SCK 3 C10
resource SPI_SDI 1 A06
resource SPI_SDI 2 NONE
resource SPI_SDI 3 C11
resource SPI_SDO 1 A07
resource SPI_SDO 2 NONE
resource SPI_SDO 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 PINIO 1 C08
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 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 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_SDO 1 NONE
dma SPI_SDO 2 NONE
dma SPI_SDO 3 NONE
dma SPI_SDI 1 NONE
dma SPI_SDI 2 NONE
dma SPI_SDI 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_TX 9 NONE
dma UART_TX 10 NONE
dma UART_TX 11 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 UART_RX 9 NONE
dma UART_RX 10 NONE
dma UART_RX 11 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 131073 115200 57600 0 115200

# mixer
mixer QUADX

mmix 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 0,0::C:0
led 1 0,0::C:0
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 1250 2100 0 0
aux 1 2 1 1700 2100 0 0
aux 2 35 2 1700 2100 0 0
aux 3 0 0 900 900 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

# vtxtable
vtxtable bands 0
vtxtable channels 0
vtxtable powerlevels 0
vtxtable powervalues
vtxtable powerlabels

# 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 = 0
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 = 1
set dyn_notch_q = 500
set dyn_notch_min_hz = 100
set dyn_notch_max_hz = 600
set gyro_lpf1_dyn_min_hz = 0
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 = 46,19,-10,1
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 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 msp_override_failsafe = OFF
set adc_device = 1
set adc_vrefint_calibration = 0
set adc_tempsensor_calibration30 = 0
set adc_tempsensor_calibration110 = 0
set blackbox_sample_rate = 1/1
set blackbox_device = SPIFLASH
set blackbox_disable_pids = OFF
set blackbox_disable_rc = OFF
set blackbox_disable_setpoint = OFF
set blackbox_disable_bat = ON
set blackbox_disable_alt = ON
set blackbox_disable_rssi = ON
set blackbox_disable_gyro = OFF
set blackbox_disable_gyrounfilt = OFF
set blackbox_disable_acc = ON
set blackbox_disable_debug = ON
set blackbox_disable_motors = ON
set blackbox_disable_rpm = OFF
set blackbox_disable_gps = ON
set blackbox_mode = NORMAL
set blackbox_high_resolution = OFF
set min_throttle = 1069
set max_throttle = 2000
set min_command = 1000
set motor_kv = 1960
set dshot_idle_value = 550
set dshot_burst = OFF
set dshot_bidir = ON
set dshot_edt = OFF
set dshot_bitbang = OFF
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 = 0,1,2,3,4,5,6,7
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 = 5
```

```
set failsafe_stick_threshold = 30
set align_board_roll = 0
set align_board_pitch = 0
set align_board_yaw = 0
set bat_capacity = 0
set vbat_max_cell_voltage = 435
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 = 170
set ibata_offset = 0
set ibatv_scale = 0
set ibatv_offset = 0
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 reboot_character = 82
set serial_update_rate_hz = 100
set imu_dcm_kp = 2500
set imu_dcm_ki = 0
set small_angle = 180
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_acquire_model = STATIONARY
set gps_ublox_flight_model = AIRBORNE_4G
set gps_update_rate_hz = 10
set gps_ublox_utc_standard = AUTO
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_nmea_custom_commands = -
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_imu_yaw_gain = 10
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 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 hott_alarm_int = 5
set pid_in_tlm = OFF
set report_cell_voltage = OFF
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 ledstrip_rainbow_delta = 0
set ledstrip_rainbow_freq = 120
set osd_units = METRIC
set osd_warn_bitmask = 270207
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_arming = OFF
set osd_logo_on_arming_duration = 5
set osd_tim1 = 2560
set osd_tim2 = 2561
set osd_vbat_pos = 2369
set osd_rssi_pos = 341
set osd_link_quality_pos = 2177
set osd_link_tx_power_pos = 341
set osd_rssi_dbm_pos = 341
set osd_rsnr_pos = 341
set osd_tim_1_pos = 2392
set osd_tim_2_pos = 2360
set osd_remaining_time_estimate_pos = 302
set osd_flymode_pos = 2305
set osd_anti_gravity_pos = 341
set osd_g_force_pos = 341
set osd_throttle_pos = 2337
set osd_vtx_channel_pos = 341
set osd_crosshairs_pos = 312
set osd_ah_sbar_pos = 313
set osd_ah_pos = 185
set osd_current_pos = 2432
set osd_mah_drawn_pos = 341
set osd_wh_drawn_pos = 341
set osd_motor_diag_pos = 341
set osd_craft_name_pos = 2081
set osd_pilot_name_pos = 341
set osd_gps_speed_pos = 341
set osd_gps_lon_pos = 341
set osd_gps_lat_pos = 341
set osd_gps_sats_pos = 341
set osd_home_dir_pos = 341
set osd_home_dist_pos = 341
set osd_flight_dist_pos = 341
set osd_compass_bar_pos = 341
set osd_altitude_pos = 341
```

```
set osd_pid_roll_pos = 341
set osd_pid_pitch_pos = 341
set osd_pid_yaw_pos = 341
set osd_debug_pos = 341
set osd_power_pos = 341
set osd_pidrate_profile_pos = 341
set osd_warnings_pos = 14729
set osd_avg_cell_voltage_pos = 2401
set osd_pit_ang_pos = 341
set osd_rol_ang_pos = 341
set osd_battery_usage_pos = 341
set osd_disarmed_pos = 2442
set osd_nheading_pos = 341
set osd_up_down_reference_pos = 312
set osd_ready_mode_pos = 341
set osd_nvario_pos = 341
set osd_esc_tmp_pos = 341
set osd_esc_rpm_pos = 341
set osd_esc_rpm_freq_pos = 341
set osd_rtc_date_time_pos = 341
set osd_adjustment_range_pos = 341
set osd_flip_arrow_pos = 341
set osd_core_temp_pos = 2273
set osd_log_status_pos = 201
set osd_stick_overlay_left_pos = 341
set osd_stick_overlay_right_pos = 341
set osd_stick_overlay_radio_mode = 2
set osd_rate_profile_name_pos = 341
set osd_pid_profile_name_pos = 341
set osd_profile_name_pos = 341
set osd_rcchannels_pos = 341
set osd_camera_frame_pos = 142
set osd_efficiency_pos = 341
set osd_total_flights_pos = 341
set osd_aux_pos = 341
set osd_sys_goggle_voltage_pos = 341
set osd_sys_vtx_voltage_pos = 341
set osd_sys_bitrate_pos = 341
set osd_sys_delay_pos = 341
set osd_sys_distance_pos = 341
set osd_sys_lq_pos = 341
set osd_sys_goggle_dvr_pos = 341
set osd_sys_vtx_dvr_pos = 341
set osd_sys_warnings_pos = 341
set osd_sys_vtx_temp_pos = 341
set osd_sys_fan_speed_pos = 341
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_pdop = 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_craftname_msgs = OFF
set system_hse_mhz = 0
set task_statistics = ON
set debug_mode = GYRO_SCALED
set rate_6pos_switch = OFF
set cpu_overclock = OFF
set pwr_on_arm_grace = 5
set enable_stick_arming = OFF
set vtx_band = 0
set vtx_channel = 0
set vtx_power = 0
set vtx_low_power_disarm = OFF
set vtx_softserial_alt = OFF
set vtx_freq = 0
set vtx_pit_mode_freq = 0
set vtx_halfduplex = ON
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 = 0,1,2,3
set displayport_msp_use_device_blink = OFF
set displayport_max7456_col_adjust = 0
set displayport_max7456_row_adjust = 0
set displayport_max7456_inv = OFF
set displayport_max7456_blk = 0
set displayport_max7456_wht = 2
set esc_sensor_halfduplex = OFF
set esc_sensor_current_offset = 0
set led_inversion = 0
set pinio_config = 1,1,1,1
set pinio_box = 40,255,255,255
set usb_hid_cdc = OFF
set usb_msc_pin_pullup = ON
set flash_spi_bus = 3
set rcdevice_init_dev_attempts = 6
set rcdevice_init_dev_attempt_interval = 1000
set rcdevice_protocol_version = 0
set rcdevice_feature = 0
set gyro_1_bustype = SPI
set gyro_1_spibus = 1
set gyro_1_i2cBus = 0
set gyro_1_i2c_address = 0
set gyro_1_sensor_align = CW180
set gyro_1_align_roll = 0
set gyro_1_align_pitch = 0
set gyro_1_align_yaw = 1800
set gyro_2_bustype = SPI
set gyro_2_spibus = 1
set gyro_2_i2cBus = 0
set gyro_2_i2c_address = 0
set gyro_2_sensor_align = CW0
set gyro_2_align_roll = 0
set gyro_2_align_pitch = 0
set gyro_2_align_yaw = 0
set i2c1_pullup = OFF
set i2c1_clockspeed_khz = 800
set i2c2_pullup = OFF
set i2c2_clockspeed_khz = 800
set i2c3_pullup = OFF
```

```
set i2c3_clockspeed_khz = 800
set mco2_on_pc9 = OFF
set scheduler_relax_rx = 25
set scheduler_relax_osd = 25
set cpu_late_limit_permille = 10
set serialmsp_halfduplex = OFF
set timezone_offset_minutes = 0
set rpm_filter_harmonics = 3
set rpm_filter_weights = 100,100,100
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 stats_min_armed_time_s = -1
set stats_total_flights = 0
set stats_total_time_s = 0
set stats_total_dist_m = 0
set craft_name = FLYTIMES85-O4
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 = 9V BEC
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 = 15
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 = 67
set i_pitch = 108
set d_pitch = 66
set f_pitch = 138
set p_roll = 64
set i_roll = 102
set d_roll = 58
set f_roll = 132
set p_yaw = 64
set i_yaw = 102
set d_yaw = 0
set f_yaw = 132
set angle_p_gain = 50
set angle_feedforward = 50
set angle_feedforward_smoothing_ms = 80
set angle_limit = 60
set angle_earth_ref = 100
set horizon_level_strength = 75
set horizon_limit_sticks = 75
set horizon_limit_degrees = 135
set horizon_ignore_sticks = OFF
set horizon_delay_ms = 500
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 = 58
set d_min_pitch = 66
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 launch_control_mode = NORMAL
set launch_trigger_allow_reset = ON
set launch_trigger_throttle_percent = 20
set launch_angle_limit = 0
set launch_control_gain = 40
set thrust_linear = 20
set transient_throttle_limit = 0
set feedforward_transition = 0
set feedforward_averaging = 3_POINT
set feedforward_smooth_factor = 30
set feedforward_jitter_factor = 12
set feedforward_boost = 15
set feedforward_max_rate_limit = 90
set dyn_idle_min_rpm = 50
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 dyn_idle_start_increase = 50
set level_race_mode = OFF
set simplified_pids_mode = RPY
set simplified_master_multiplier = 130
set simplified_i_gain = 90
set simplified_d_gain = 150
set simplified_pi_gain = 110
```

```
set simplified_dmax_gain = 0
set simplified_feedforward_gain = 85
set simplified_pitch_d_gain = 100
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
set tpa_low_rate = 20
set tpa_low_breakpoint = 1050
set tpa_low_always = OFF
set ez_landing_threshold = 25
set ez_landing_limit = 15
set ez_landing_speed = 50

rateprofile 1

# rateprofile 1
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

# end the command batch
batch end

SAVE
```