

 bitdump


/ BLHeli

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BLHeli / BLHeli_32 ARM / BLHeli_32 Firmware specs / Digital_Cmd_Spec.txt

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 sskaug Published Rev32.61 test code

dd24d5d on 5 Jan

1 contributor

52 lines (47 sloc) | 2.71 KB

RawBlameHistory

1000123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051

DIGITAL_CMD_MOTOR_STOP

// Currently not implemented

DIGITAL_CMD_BEEP1

// Wait at least length of beep (260ms) before next command

DIGITAL_CMD_BEEP2

// Wait at least length of beep (260ms) before next command

DIGITAL_CMD_BEEP3

// Wait at least length of beep (280ms) before next command

DIGITAL_CMD_BEEP4

// Wait at least length of beep (280ms) before next command

DIGITAL_CMD_BEEP5

// Wait at least length of beep (1020ms) before next command

DIGITAL_CMD_ESC_INFO

// Wait at least 12ms before next command

DIGITAL_CMD_SPIN_DIRECTION_1

// Need 6x, no wait required

DIGITAL_CMD_SPIN_DIRECTION_2

// Need 6x, no wait required

DIGITAL_CMD_3D_MODE_OFF

// Need 6x, no wait required

DIGITAL_CMD_3D_MODE_ON

// Need 6x, no wait required

DIGITAL_CMD_SETTINGS_REQUEST

// Currently not implemented

DIGITAL_CMD_SAVE_SETTINGS

// Need 6x, wait at least 35ms before next command

DIGITAL_CMD_SPIN_DIRECTION_NORMAL

// Need 6x, no wait required

DIGITAL_CMD_SPIN_DIRECTION_REVERSED

// Need 6x, no wait required

DIGITAL_CMD_LED0_ON

// No wait required

DIGITAL_CMD_LED1_ON

// No wait required

DIGITAL_CMD_LED2_ON

// No wait required

DIGITAL_CMD_LED3_ON

// No wait required

DIGITAL_CMD_LED0_OFF

// No wait required

DIGITAL_CMD_LED1_OFF

// No wait required

DIGITAL_CMD_LED2_OFF

// No wait required

DIGITAL_CMD_LED3_OFF

// No wait required

30 Audio_Stream mode on/Off

// Currently not implemented

31 Silent Mode on/Off

// Currently not implemented

32 DIGITAL_CMD_SIGNAL_LINE_TELEMETRY_DISABLE

// Need 6x, no wait required

33 DIGITAL_CMD_SIGNAL_LINE_CONTINUOUS_ERPM_TELEMETRY

// Need 6x, no wait required

Commands are only executed when motors are stopped

Commands are valid for Dshot and Proshot input signals

DIGITAL_CMD_SIGNAL_LINE_ERPM_TELEMETRY: 100erpm per LSB, 409500erpm max

ESC_INFO layout for BLHeli_32:

1-12: ESC SN

13: Indicates which response version is used. 254 is for BLHeli_32 version.

14: FW revision (32 = 32)

15: FW sub revision (10 = xx.1, 11 = xx.11)

16: Unused

17: Rotation direction reversed by dshot command or not (1:0)

18: 3D mode active or not (1:0)

19: Low voltage protection limit [0.1V] (255 = not capable, 0 = disabled)

20: Current protection limit [A] (255 = not capable, 0 = disabled)

21: LED0 on or not (1:0, 255 = LED0 not present)

22: LED1 on or not (1:0, 255 = LED1 not present)

23: LED2 on or not (1:0, 255 = LED2 not present)

24: LED3 on or not (1:0, 255 = LED3 not present)

25-31: Unused

32-63: ESC signature

64: CRC (same CRC as is used for telemetry)