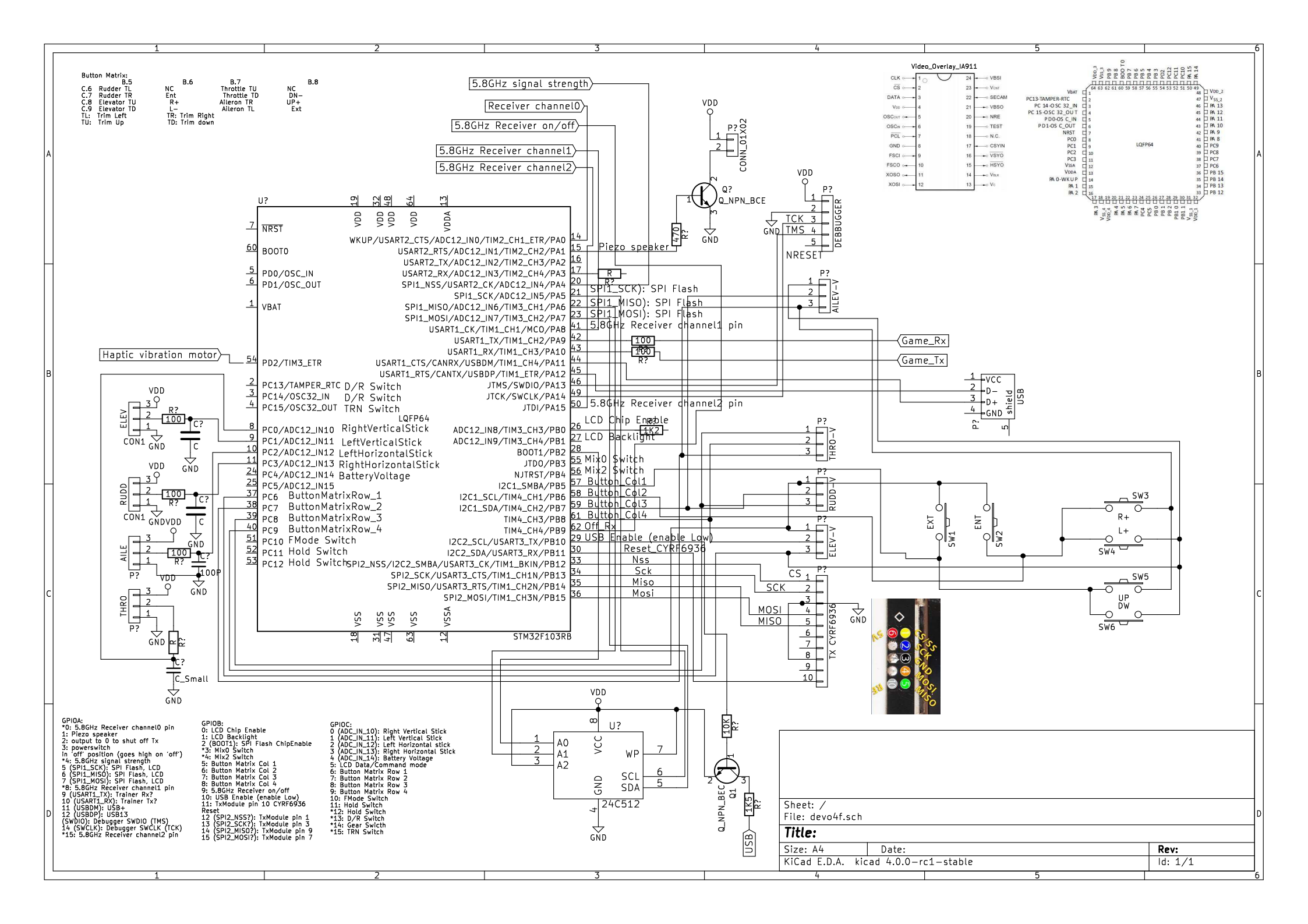
Button Matrix:
B.5 B.6 B.7 B.8
C.6 Rudder TL NC Throttle TU NC
C.7 Rudder TR Ent Throttle TD DN−
C.8 Elevator TU R+ Aileron TR UP+
C.9 Elevator TD L− Aileron TL Ext
TL: Trim Left TR: Trim Right
TU: Trim Up TD: Trim down
5.8GHz signal strength
Receiver channel0
5.8GHz Receiver on/off
5.8GHz Receiver channel1
5.8GHz Receiver channel2
Haptic vibration motor
Piezo speaker
D/R Switch
TRN Switch
LCD Chip Enable
LCD Backlight
Mix0 Switch
Mix2 Switch
Button_Col1
Button_Col2
Button_Col3
Button_Col4
Off_Rx
USB Enable (enable Low)
Reset_CYRF6936
Nss
Sck
Miso
Mosi
Game_Rx
Game_Tx
SPI1_SCK): SPI Flash
SPI1_MISO): SPI Flash
SPI1_MOSI): SPI Flash
5.8GHz Receiver channel1 pin
5.8GHz Receiver channel2 pin
LQFP64
STM32F103RB
RightVerticalStick
LeftVerticalStick
LeftHorizontalStick
RightHorizontalStick
BatteryVoltage
ButtonMatrixRow_1
ButtonMatrixRow_2
ButtonMatrixRow_3
ButtonMatrixRow_4
FMode Switch
Hold Switch
Hold Switch
TX CYRF6936
24C512
Q_NPN_BCE
CONN_01X02
DEBBUGGER
NRESET
AILEV−V
THRO−V
RUDD−V
ELEV−V
USB
SW1
SW2
SW3
SW4
SW5
SW6
EXT
ENT
R+
L+
UP
DW
CS
SCK
MOSI
MISO
Video_Overlay_IA911
GPIOA:
*0: 5.8GHz Receiver channel0 pin
1: Piezo speaker
2: output to 0 to shut off Tx
3: powerswitch
in 'off' position (goes high on 'off')
*4: 5.8GHz signal strength
5 (SPI1_SCK): SPI Flash, LCD
6 (SPI1_MISO): SPI Flash, LCD
7 (SPI1_MOSI): SPI Flash, LCD
*8: 5.8GHz Receiver channel1 pin
9 (USART1_TX): Trainer Rx?
10 (USART1_RX): Trainer Tx?
11 (USBDM): USB+
12 (USBDP): USB13
(SWDIO): Debugger SWDIO (TMS)
14 (SWCLK): Debugger SWCLK (TCK)
*15: 5.8GHz Receiver channel2 pin
GPIOB:
0: LCD Chip Enable
1: LCD Backlight
2 (BOOT1): SPI Flash ChipEnable
*3: Mix0 Switch
*4: Mix2 Switch
5: Button Matrix Col 1
6: Button Matrix Col 2
7: Button Matrix Col 3
8: Button Matrix Col 4
9: 5.8GHz Receiver on/off
10: USB Enable (enable Low)
11: TxModule pin 10 CYRF6936 Reset
12 (SPI2_NSS?): TxModule pin 1
13 (SPI2_SCK?): TxModule pin 3
14 (SPI2_MISO?): TxModule pin 9
15 (SPI2_MOSI?): TxModule pin 7
GPIOC:
0 (ADC_IN_10): Right Vertical Stick
1 (ADC_IN_11): Left Vertical Stick
2 (ADC_IN_12): Left Horizontal stick
3 (ADC_IN_13): Right Horizontal Stick
4 (ADC_IN_14): Battery Voltage
5: LCD Data/Command mode
6: Button Matrix Row 1
7: Button Matrix Row 2
8: Button Matrix Row 3
9: Button Matrix Row 4
10: FMode Switch
11: Hold Switch
*12: Hold Switch
*13: D/R Switch
*14: Gear Switch
*15: TRN Switch
Sheet: /
File: devo4f.sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 4.0.0−rc1−stable
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