STM32 FFB Joystick V.100.100

Hardware: STM32F407 Discovery board.

2x DAC8563 board output +/- 10V for AC servo Panasonic 400W Torque mode.

2x 2000PPR Encoder

Buttons, Analog channels – optional.

- Pin Map for DAC8563 board:

	DAC8563 – SPI1	SCK	PA5------> SPI1_SCK
	OUTPUT Module A CH1 – Torque X	MOSI	PA7------> SPI1_MOSI
	OUTPUT Module A CH2 – SPEED X	CS1	PA4
	OUTPUT Module B CH1 – Torque Y	CS2	PC4
	OUTPUT Module A CH2 – SPEED Y	CLR	PB10
		LDAC	PB11
	Encoder X Axis	PIN A	PB4
		PIN B	PB5
	Encoder Y Axis	PIN A	PB6
		PIN B	PB7
	Motor Driver X Axis	ENABLE	PC5
		DIR	PB1
	Motor Driver Y Axis	ENABLE	PB0
		DIR	PB2
	ADC	CH1	PC0------> ADC1_IN10
		CH2	PC1------> ADC1_IN11
		CH3	PC2------> ADC1_IN12
		CH4	PC3------> ADC1_IN13
	PWM	CH1	PE9
		CH2	PE11
		CH3	PE13
		CH4	PE14