

EEPROM MEMORY FW (PSoC 5 firmware - SoftHand Pro and Generic)

	BYTE 1	BYTE 2	BYTE 3	BYTE 4	BYTE 5	BYTE 6	BYTE 7	BYTE 8	BYTE 9	BYTE 10	BYTE 11	BYTE 12	BYTE 13	BYTE 14	BYTE 15	BYTE 16	STRUCT NAME
1	FLAG		UNUSED BYTES (15)														CNT
2	EMG ACTIVATION COUNTER 1				EMG ACTIVATION COUNTER 2				POSITION HISTOGRAM[0]				POSITION HISTOGRAM[1]				
3	POSITION HISTOGRAM[2]				POSITION HISTOGRAM[3]				POSITION HISTOGRAM[4]				POSITION HISTOGRAM[5]				
4	POSITION HISTOGRAM[6]				POSITION HISTOGRAM[7]				POSITION HISTOGRAM[8]				POSITION HISTOGRAM[9]				
5	CURRENT HISTOGRAM[0]				CURRENT HISTOGRAM[1]				CURRENT HISTOGRAM[2]				CURRENT HISTOGRAM[3]				
6	REST COUNTER				WIRE DISP				TOTAL RUNTIME				TIME REST				
7	POWER CYCLES				EXCESSIVE SIGNAL ACTIVITY[0]				EXCESSIVE SIGNAL ACTIVITY[1]				MOTION COUNTER 1				
8	MOTION COUNTER 2				UNUSED BYTES 1 (12)												
9	UNUSED BYTES 1 (16)																
10	UNUSED BYTES 1 (16)																
11	ID	HW MAINT. DAY	HW MAINT. MONTH	HW MAINT. YEAR	STATS PERIOD BEGIN DAY	STATS PERIOD BEGIN MONTH	STATS PERIOD BEGIN YEAR	RIGHT LEFT	RESET COUNTERS	USE 2ND MOTOR	BAUDRATE	USER ID	DEV TYPE				DEV
12	KP				KI				KD				KP_C				MOTOR[0]
13	KI_C				KD_C				KP_DL				KI_DL				
14	KD_DL				KP_CDL				KI_CDL				KD_CDL				
15	ACTIV	PWM RESCALING	DRIVER MOTOR TYPE	POSITION LIMIT FLAG	POS_LIM_INF				POS_LIM_SUP				MAX STEP NEG				
16	MAX STEP POS				CURRENT LOOKUP_0				CURRENT LOOKUP_1				CURRENT LOOKUP_2				
17	CURRENT LOOKUP_3				CURRENT LOOKUP_4				CURRENT LOOKUP_5				CURR_LIMIT		INPUT	CONTR	MOTOR[1]
18	ENCODER LINE	PWM RATE LIMITER	NOT REVERS. FLAG														
19	KP				KI				KD				KP_C				
20	KI_C				KD_C				KP_DL				KI_DL				
21	KD_DL				KP_CDL				KI_CDL				KD_CDL				
22	ACTIV	PWM RESCALING	DRIVER MOTOR TYPE	POSITION LIMIT FLAG	POS_LIM_INF				POS_LIM_SUP				MAX STEP NEG				ENC[0]
23	MAX STEP POS				CURRENT LOOKUP_0				CURRENT LOOKUP_1				CURRENT LOOKUP_2				
24	CURRENT LOOKUP_3				CURRENT LOOKUP_4				CURRENT LOOKUP_5				CURR_LIMIT		INPUT	CONTR	
25	ENCODER LINE	PWM RATE LIMITER	NOT REVERS. FLAG														
26	ENCODER RAW READ CONF FLAGS (5)					RESOLUTION (3)			OFFSET 0				OFFSET 1				
27	OFFSET 2					MULTIPLIER 0			MULTIPLIER 1				MULTIPLIER 2				ENC[1]
28	DOUBLE ENCODER	HANDLE RATIO	ENCODER IDX USE FOR CONTROL			GEARS PARAM N1	GEARS PARAM N2	GEARS PARAM I1									
29	ENCODER RAW READ CONF FLAGS (5)					RESOLUTION (3)			OFFSET 0				OFFSET 1				
30	OFFSET 2					MULTIPLIER 0			MULTIPLIER 1				MULTIPLIER 2				IMU
31	DOUBLE ENCODER	HANDLE RATIO	ENCODER IDX USE FOR CONTROL			GEARS PARAM N1	GEARS PARAM N2	GEARS PARAM I1									
32	EMG THRESHOLD 1		EMG THRESHOLD 2		EMG MAX VALUE 1				EMG MAX VALUE 2			EMG SPEED 0	EMG SPEED 1	EMG CALIB. STARTUP	SWITCH EMG		
33	READ IMU FLAG	SPI READ DELAY	IMU CONF FLAGS (5) - IMU 0					IMU CONF FLAGS (5) - IMU 1				IMU CONF FLAGS (4) - IMU 2					
34	IMU FLAG - IMU 2 (1)	IMU CONF FLAGS (5) - IMU 3				IMU CONF FLAGS (5) - IMU 4				IS MAG CALIB	MAGCALIB MIN[0,0]		MAGCALIB MAX[1,1]				
35	MAGCALIB MIN[0,1]		MAGCALIB MAX[0,1]		MAGCALIB MIN[0,2]		MAGCALIB MAX[0,2]		MAGCALIB MIN[1,0]		MAGCALIB MAX[1,0]		MAGCALIB MIN[1,1]		MAGCALIB MAX[0,0]		
36	MAGCALIB MIN[1,2]		MAGCALIB MAX[1,2]		MAGCALIB MIN[2,0]		MAGCALIB MAX[2,0]		MAGCALIB MIN[2,1]		MAGCALIB MAX[2,1]		MAGCALIB MIN[2,2]		MAGCALIB MAX[2,2]		
37	MAGCALIB MIN[3,0]		MAGCALIB MAX[3,0]		MAGCALIB MIN[3,1]		MAGCALIB MAX[3,1]		MAGCALIB MIN[3,2]		MAGCALIB MAX[3,2]		MAGCALIB MIN[4,0]		MAGCALIB MAX[4,0]		
38	MAGCALIB MIN[4,1]		MAGCALIB MAX[4,1]		MAGCALIB MIN[4,2]		MAGCALIB MAX[4,2]										EXP
39	CHECKED TIME (6)						READ EXP. PORT FLAG	READ ADC SENS. PORT	ADC CONF FLAGS (12) - CHANNEL [0,7]								
40	ADC CONF FLAGS (12) - CHANNEL [8,10]			RECORD EMG ON SD FLAG													
41	USER CODE STRING								USER EMG STRUCT								USER[0]
42	USER EMG STRUCT																
43	USER CODE STRING								USER EMG STRUCT								USER[1]
44	USER EMG STRUCT																
45	USER CODE STRING								USER EMG STRUCT								USER[2]
46	USER EMG STRUCT																
47	REST POSITION				REST POSITION DELAY				REST POSITION VEL				REST POSITION				SH
48	JOYSTICK CLOSURE SPEED		JOYSTICK THRESHOLD		JOYSTICK GAIN 1	JOYSTICK GAIN 2											JOY
49	SLAVE COMM ACTIVE	SLAVE ID															MS
50	MAXIMUM RESIDUAL CURRENT				MAXIMUM PRESSURE KPA				PROPORTIONAL ERROR FB GAIN								FB
51	WRIST ACT. MODE	FAST ACT. THRESHOLD 1		FAST ACT. THRESHOLD 2		DIRECTION ASSOCIATION											WR
52																	

Each struct size is multiple of 16 bytes (EEPROM row length)