```
1 #ifndef INC_STEPMOTOR1_H_
2 #define INC_STEPMOTOR1_H_
3
4 #include "stm32f4xx_hal.h"
5
6 #define STEPS_PER_REV_MOTOR1    200             /* liczba krokow na pelen obrot silnika */
7 #define MICROSTEP_NUM_MOTOR1    32              /* liczba mikrokrokow -> 1 = brak
  mikrokrokow */
8
9 #define PULSE_TIM_MOTOR1        htim8           /* timer odpowiedzialny za generowanie
  sygnalu PWM */
10 #define PULSE_TIM_CH_MOTOR1     TIM_CHANNEL_2   /* kanal generowania sygnalu PWM */
11
12 #define XT_TIM_CLK_MOTOR1       84000000        /* czestotliwosc wejsciowa timera PULSE_TIM
  w Hz */
13 #define XT_TIM_PSC_MOTOR1       41              /* prescaler timera PULSE_TIM */
14
15 #define STEPPER_CW_MOTOR1       0               /* stan pinu DIR podczas ruchu CW */
16 #define STEPPER_CCW_MOTOR1      1               /* stan pinu DIR podczas ruchu CCW */
17
18 void stepper_init_motor1(void);
19 void stepper_speed_motor1(uint16_t rpm);
20 void stepper_run_motor1(uint8_t dir);
21 void stepper_stop_motor1(void);
22 void stepper_steps_motor1(uint16_t steps, volatile uint16_t *stepLimit1);
23 void stepper_rot_motor1(uint16_t ang, uint16_t rpm, uint8_t dir, volatile uint16_t
  *stepLimit1, volatile int* rotationCounter1, volatile uint16_t* isStop1);
24 void stepper_rot_home_motor1(uint16_t rpm, uint8_t dir, volatile uint16_t *stepLimit1,
  volatile int* rotationCounter1, volatile uint16_t* isStop1);
25 #endif /* INC_STEPMOTOR1_H_ */
26
```