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1  #ifndef NRF24
2  #define NRF24
3
4  #include "nRF24L01_Definitions.h"
5  #include <stdint.h>
6
7  #define LOW 0
8  #define HIGH 1
9
10 #define nrf24_ADDR_LEN 5
11 #define nrf24_CONFIG ((1<<EN_CRC)|(0<<CRCO))
12
13 #define NRF24_TRANSMISSION_OK 0
14 #define NRF24_MESSAGE_LOST 1
15
16 void nrf24_init();
17 void nrf24_rx_address(uint8_t* adr);
18 void nrf24_tx_address(uint8_t* adr);
19 void nrf24_config(uint8_t channel, uint8_t pay_length);
20
21 uint8_t nrf24_dataReady();
22 uint8_t nrf24_isSending();
23 uint8_t nrf24_getStatus();
24 uint8_t nrf24_rxFifoEmpty();
25
26 void nrf24_send(uint8_t* value);
27 void nrf24_getData(uint8_t* data);
28
29 uint8_t nrf24_payloadLength();
30
31 uint8_t nrf24_lastMessageStatus();
32 uint8_t nrf24_retransmissionCount();
33
34 uint8_t nrf24_payload_length();
35
36 void nrf24_powerUpRx();
37 void nrf24_powerUpTx();
38 void nrf24_powerDown();
39
40 uint8_t spi_transfer(uint8_t tx);
41 void nrf24_transmitSync(uint8_t* dataout, uint8_t len);
42 void nrf24_transferSync(uint8_t* dataout, uint8_t* datain, uint8_t len);
43 void nrf24_configRegister(uint8_t reg, uint8_t value);
44 void nrf24_readRegister(uint8_t reg, uint8_t* value, uint8_t len);
45 void nrf24_writeRegister(uint8_t reg, uint8_t* value, uint8_t len);
46
47 extern void nrf24_setupPins();
48
49 extern void nrf24_ce_digitalWrite(uint8_t state);
50
51 extern void nrf24_csn_digitalWrite(uint8_t state);
52
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53 extern void nrf24_sck_digitalWrite(uint8_t state);
54
55 extern void nrf24_mosi_digitalWrite(uint8_t state);
56
57 extern uint8_t nrf24_miso_digitalRead();
58
59 #endif
60
```