Tiny RTC I2C DS1307 AT24C32 Real Time Clock Module

Produktkode: 5345
Tilgjengelighet: 3

Pris: kr. 180,00

Short Description
Tiny RTC I2C DS1307 AT24C32 Real Time Clock Module For Arduino AVR PIC 51
ARM UK

Beskrivelse
SD card module program is more complicated, we only provide information, do not
provide technical support, do not understand the buyer to buy carefully, thank you for
your cooperation!

1, module description

1 Board size: 4.4cm*3.4cm

2 working voltage: support external two power modes (3.3v and 5v power supply)

3 with fixed bolt holes for easy installation

4 small board PCB size: 3cm * 1.6cm

2,module interface description (4-wire system)

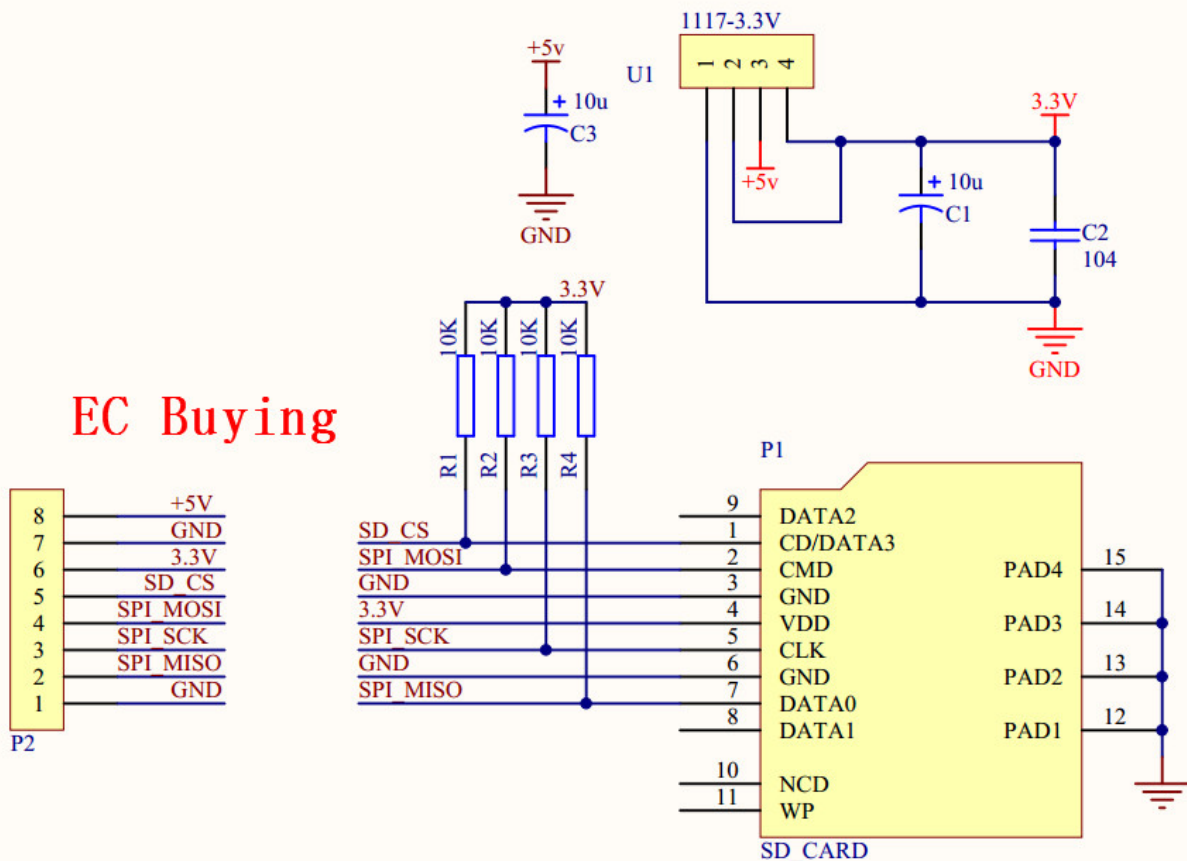Power: Select a group of power supply (5v and 3.3v select one)

other:

1 MISO

2 SCK

3 MOSI

4 CS

3, shipping list

1 SD card module as shown (test passed)

2 Provide data download address (schematic diagram + instructions + test program) (without technical support).

1117-3.3V

U1

+5v
+ 10u
C3
GND

3.3V

+5v
+ 10u
C1

C2
104

GND

3.3V

10K 10K 10K 10K

R1 R2 R3 R4

EC Buying

P1

P2

8	+5V
7	GND
6	3.3V
5	SD_CS
4	SPI_MOSI
3	SPI_SCK
2	SPI_MISO
1	GND

SD_CS
SPI_MOSI
GND
3.3V
SPI_SCK
GND
SPI_MISO

9	DATA2		
1	CD/DATA3		
2	CMD	PAD4	15
3	GND		
4	VDD	PAD3	14
5	CLK		
6	GND	PAD2	13
7	DATA0		
8	DATA1	PAD1	12
10	NCD		
11	WP		

SD_CARD

Overview?

With compact design, the board can integrate the real-time clock module DS1307, EEPROM memory AT24C32 and digital temperature sensor DS18B20 (not supplied on the board) which are connected via I2C bus together on a 27mm*28mm*8.4mm board.

DS1307 is a low-power real-time clock chip with 56 bytes of non-volatile RAM, full BCD code clock and calendar. The address and data will be transmitted via a two-wire bidirectional serial bus, and the chip can provide information such as seconds, minutes, hours, etc., and the number of days in each month can be automatically adjusted. Besides, there is a compensation function for leap year. AM / PM flag is to determine whether the clock operates in 24-hour or 12-hour mode, and there is a built-in power-sense circuit in the chip with powering down detecting and battery switching functions.

AT24Cxx series of EEPROM are produced by Microchip, a U.S. company. Among which, those of 1-512K-bit support serial CMOS E2PROM with I2C bus data transfer

protocol, which are electrically erasable, programmable for self-timed writing cycle (including auto erase time of no more than 10ms, typical time of 5ms) . AT24C32, memory bit of which is 32K bit, can store 8K (8192) bytes. It supports 1.8V to 5V power supply, which can be erased for one million times, and the data can be kept for 100 years. When using a 5V power supply, the clock can reach 400 KHz.

Product Gallery