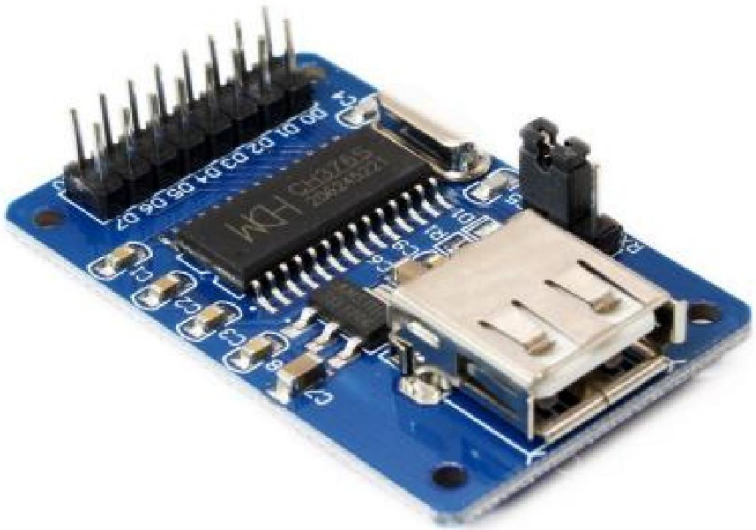
CH376S MODULE



CH376S U Disk Read Write Module USB Flash Control Transfer For Arduino

Description:

CH376 is common a USB bus interface chip, with 8 bit data bus and reading , writing and chip select lines and interrupt output , can easily attached to the system bus of the single chip microcomputer /DSP/MCU/MPU controller. In the USB host mode , CH376 also provides a serial communication mode, through the serial input, serial output and interrupt output connected with the MCU /DSP/MCU/MPU.

The "CH376S/CH375 USB read/write module" has a CH376S/CH375 chip onboard which does most of the hard work for you. All you have to do is send the module some commands from the Arduino and the CH376S/CH375 chip will do the rest. You can communicate with the module in three different ways:

• Parallel communication

• SPI communication

• and Serial (UART) communication.

CH376 is used as file manage control chip, used to MCU system read/write file in USB Flash Driveor SD card.

CH376 supports USB-Device Mode and USB-HOST Mode. Set the basic firmware of USB communication protocol in the inner. It is also set firmware of special communication protocol to deal with Mass-Storage devices, communication interface firmware of SD card, FAT16, FAT32 and FAT12

file system manage firmware in the inner. It supports common USB storage devices (contains USB Flash Drive/USB hard disk/USB Flash memory/USB read card) and SD cards (contain SD card with standard capacity and HC-SD card with high capacity, MMC card and TF card compatible with protocol).

CH376 supports three communication interfaces: 8-bit parallel, SPI interface or asynchronism serial interface. DSP/MCU/MPU etc. controller via the any interface of them to control CH376 chip, storage and get file in USB Flash Drive or SD card, or communication with computer.

The USB-DEVICE Mode of CH376 is totally compatible with CH372, the USB-HOST Mode of CH375 is basically compatible with CH375.

Features:

1.2x8 connection head, can be convenient to hang with MCU

2.According to the jumper option, which can work in parallel or serial mode

3.USB status indicator light

4.Plate load LDO 3.3V 1117, to provide the maximum 800mA current

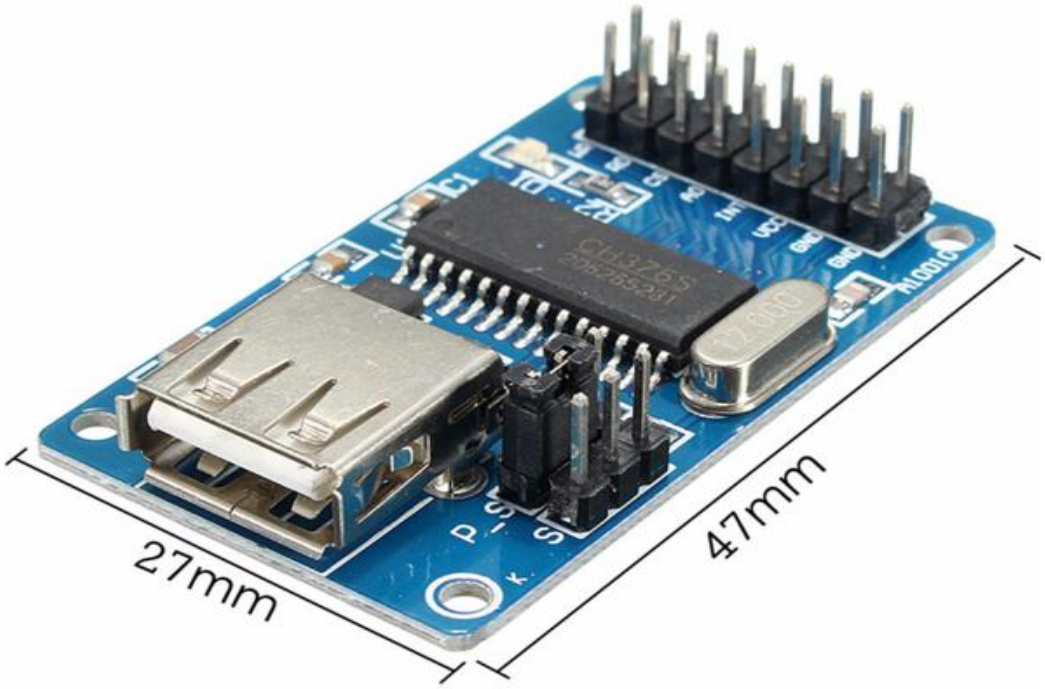
5.5V power supply by the target board

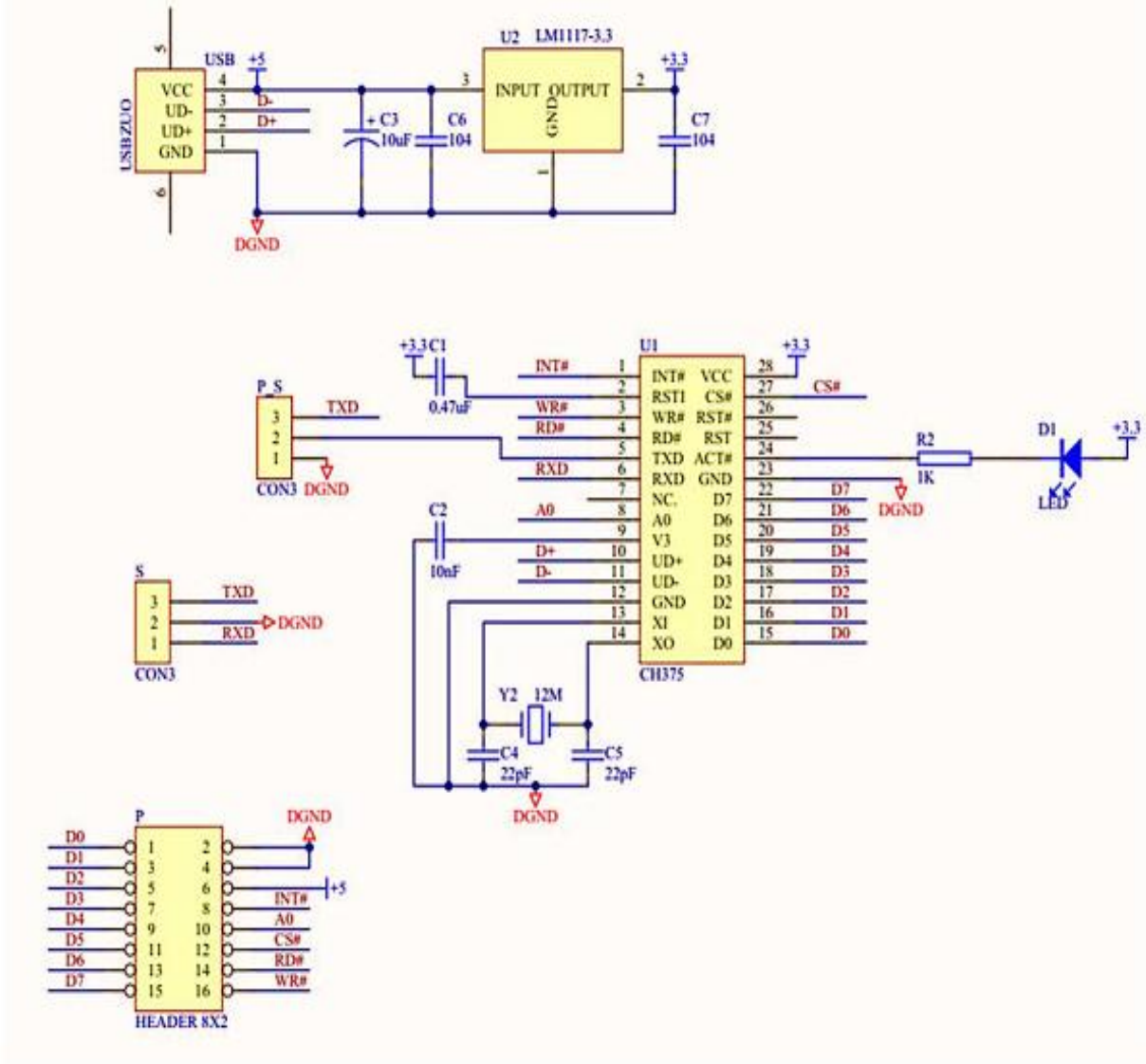
6.12MHZ crystal

7.Size:47*27mm

Package included:

1 x CH376S U disk module




USB
USBZUO
VCC
UD-
UD+
GND
D-
D+
+5
DGND
+ C3
10uF
C6
104
U2 LM1117-3.3
INPUT OUTPUT
GND
+3.3
C7
104
+3.3
C1
0.47uF
P_S
TXD
CON3
DGND
U1
INT#
WR#
RD#
RXD
A0
D+
D-
RST1
RST#
RD#
TXD
NC.
V3
UD+
UD-
GND
XI
XO
CS#
ACT#
D7
D6
D5
D4
D3
D2
D1
D0
CH375
R2
1K
D1
LED
C2
10nF
S
Y2 12M
C4
22pF
C5
22pF
P
HEADER 8X2