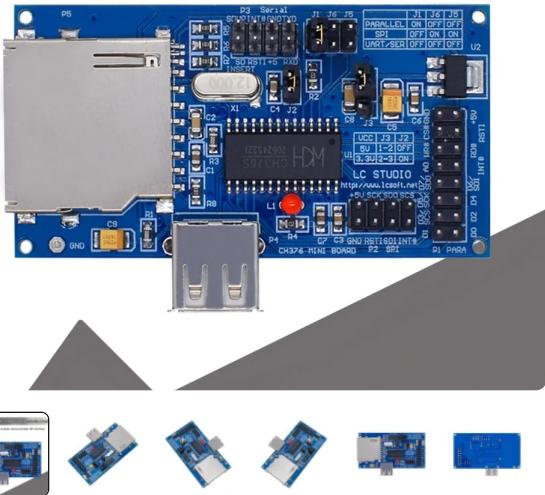
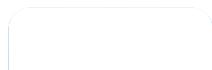


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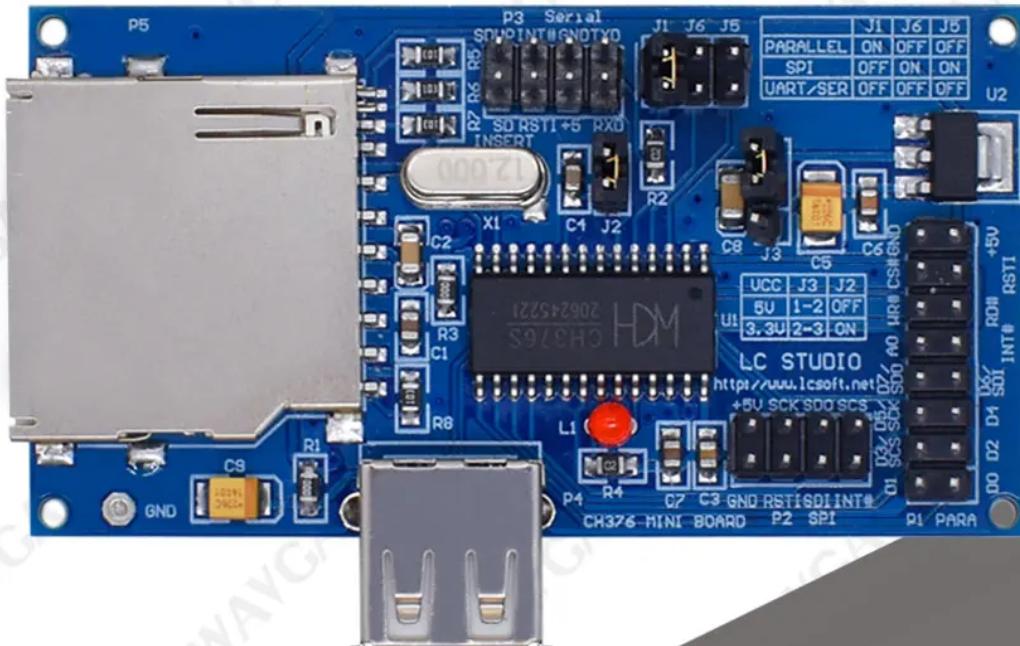
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# CH376 USB development board evaluation board

- SD card module microcontroller SIP interface



## Product introduction

CH376 evaluation board contains CH376S chip and auxiliary components, excluding single chip microcomputer. It is reserved for 8-bit parallel port, SPI interface, asynchronous string and power port, etc., for connecting with other single chip microcomputer motherboards, and the motherboard of single chip microcomputer controls CH376 for function evaluation.

## Pin definition

1. The main component U1 in the evaluation board is CH376S chip. but some si

gnals in the figure are named after CH375 or CH374.

2. Crystal \*1 is standard 12MHz, USB host requires higher frequency accuracy than USB devices, the error of \*1 is less than 0.4%, ordinary 12MHz crystal can basically meet the requirements. Shortening the length of the relevant leads is strongly recommended to reduce interference.

3. Capacitor C4 is used for internal power supply node decoupling to reduce EMI during USB transmission. The capacity is 4700pF to 0.1uF, and ordinary 103 patch capacitor 0.01uF can be used.

4. P4 is a USB port, which can be used in both USB HOST mode and USB DEVICE mode. Resistor R1 is used to limit the current output to external USB devices, so as to avoid short time drop of power supply voltage when USB devices such as U disk are just inserted, or even cause abnormal reset of CH376 or SCM or internal RAM data error. If it is a USB external hard disk, you should replace the resistor R1 with an inductor with a smaller DC resistance, or use another 5V power supply to directly provide a larger working current (more than 500mA) to the external hard disk. In addition, the capacity of the power decoupling capacitor C9 of the USB-Host socket should not be too small. A larger capacity (should be greater than 100uF) can reduce the fluctuation of the power supply voltage when the USB device is just plugged in.

5. P5 is the SD card socket, which can contact the SD card of standard size, and the SD card of other specifications may need an additional conversion seat. The resistor R3 is used to limit the current output to the external SD card to avoid a short drop in the supply voltage when the SD card is just inserted.

6. P1 is the signal port of the 8-bit parallel port, which is used to connect the parallel port of the single chip microcomputer. The necessary signals of the parallel port include D0-D7, A0, RD#, WR#, CS# and GND, while INT# is optional.

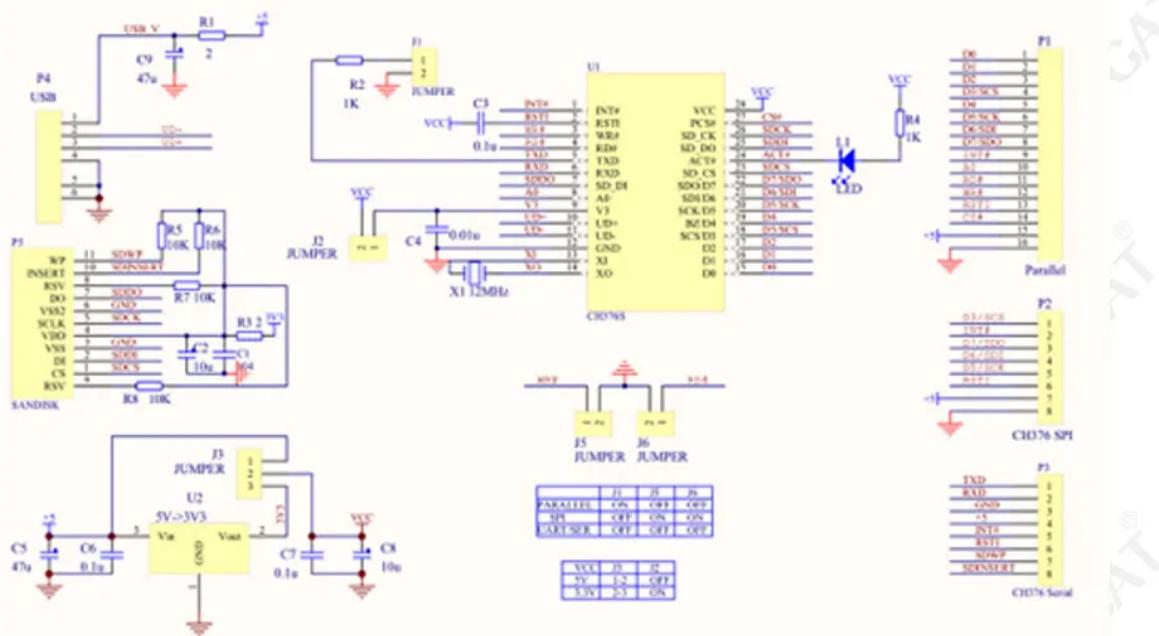
7. P2 is the signal port of the SPI serial port, which is used to connect the SPI interface of the single chip microcomputer. The necessary signals of SPI include SCS, SCK, SDL, SDO and GND, while INT# is optional.

8. P3 is the signal port of the asynchronous serial port, which is used to connect the asynchronous serial port of the single chip microcomputer. The necessary signals of the asynchronous serial port include RXD, TXD and GND, while INT# is optional. P3 provides both write-protected SDWP and plug-and-state SDINSERT signal lines for the SD card.

▲ The above P1, P2 and P3 communication ports can also provide 5V power su

pply to the evaluation board from the outside, as well as optional hardware reset signal to the RSTI pin of CH376. If there is a UP monitoring circuit in the actual product circuit, the same reset signal should be provided to CH376 and MC U. Note that the length of the signal line between the evaluation board and the SCM should be shortened as far as possible, the longest can not exceed 20cm, otherwise it is necessary to use a special circuit with a signal interval of one ground wire. J3 is used to select the working voltage of CH376 chip, which is 5V when shorting 1-2 pins and 3.3V when shorting 2-3 pins. The default voltage is 5V, but when the working voltage of SCM is equal to or lower than 3.3V, 3.3V voltage can be selected for CH376. When CH376 chip working voltage is 5V, J2 must be disconnected, when CH376 chip working voltage is 3.3V, J2 must be short-connected.

## Schematic diagram



## Directions for use

### CH376 evaluation board description:

J1, J5 and J6 are used to select the communication connection between CH376 and SCM after power on or hardware reset:

If J1 is short, J5 is disconnected, J6 is disconnected, then it is 8-bit parallel port;

If J1 is disconnected, J5 is short, J6 is short, then it is SPI interface;

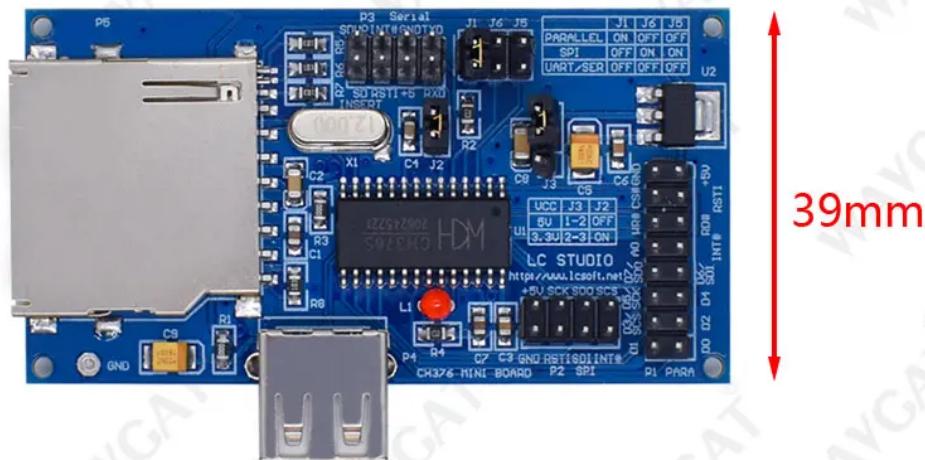
If J1 is disconnected, J5 is disconnected, or J6 is disconnected, it is an asynchronous serial port.

- Some examples of programs may use the single-chip serial port output debugging status information, if you need to display these monitoring information, you can be connected to the computer after the single-chip string RS232 level conversion using the serial port monitoring/debugging tool software to view. If you use CH375 evaluation board, you can connect J2 to a computer serial port; If the computer does not have a serial port, or the serial port has been occupied by other devices, then you can provide simulation serial port from USB to serial chip CH341.

- The CH375 evaluation board must add the resistor R0 and remove the 3.3V regulator D4 when operating at 5V supply voltage, and add the regulator D4 and remove the resistor R0 when operating at 3.3V supply voltage. The default is 5V power.

## Product size

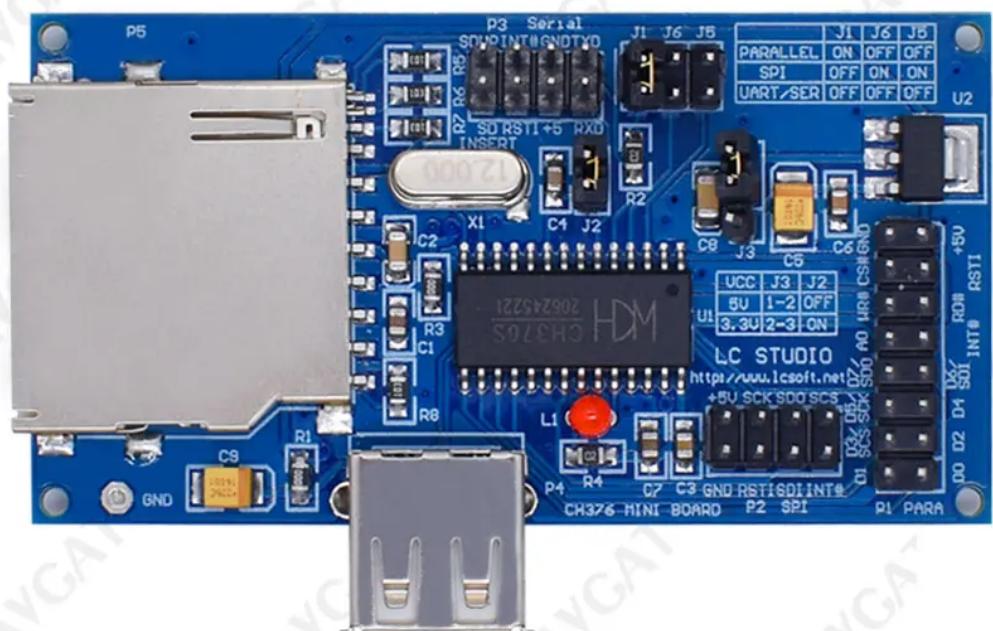
73.5mm

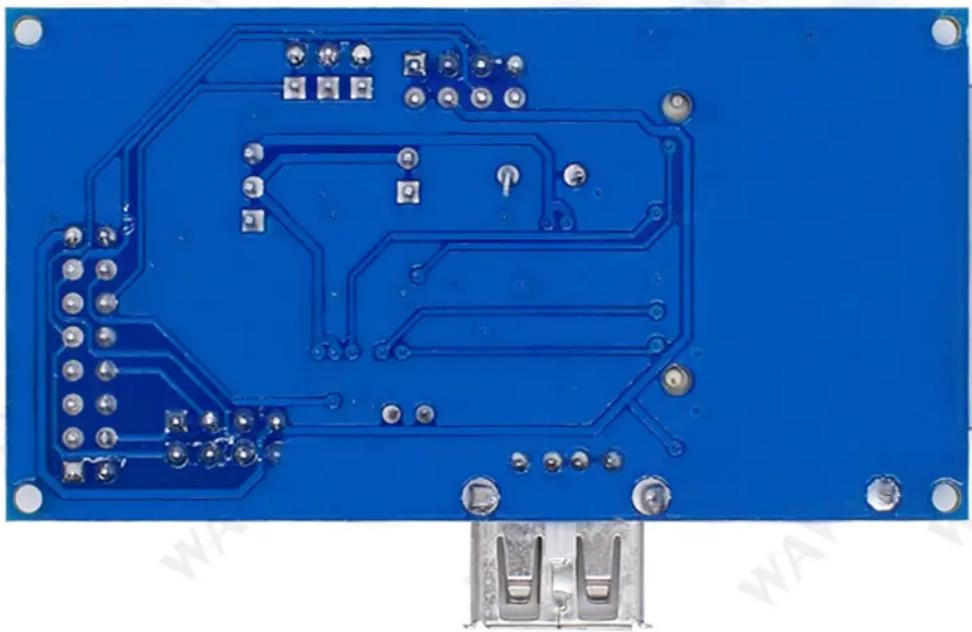


Weight: 18g

Product will







## Specifications

Package	module	is_customized	Yes
Model Number	CH376S	Operating Temperature	-40-+85
Dissipation Power	..	Supply Voltage	..

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