

Keyboard Converter

Feature:

Converts the PS2 protocol to TWI/IIC,UART,parallel interface
Increase the key state detection. Wide range of applications.

Application :

Robot ,Electronic products,and so on

Brief introduction:

PS2 keyboard driver module, use a small microcontroller reads the PC PS2 keyboard key-press information, The values of the key will output by serial or parallel, for the use of other equipment. In a single chip microcomputer project system, main control MCU does not need to write the keyboard driver, read the key information directly, very convenient. PS2 keyboard driver module, use a small microcontroller reads the PC PS2 keyboard key-press information, The values of the key will output by serial or parallel or TWI/IIC (Through the short circuit cap option), for the use of other equipment. In a single chip microcomputer project system, main control MCU does not need to write the keyboard driver, read the key information directly, very convenient.

Working principle:

PS2 keyboard driver module uses a piece of programed code of MCU as the controller, to read the state of PS2 keyboard keys. When the keyboard is pressed, the LED lights flashing on the PS2 keyboard driver module, at the same time through serial communication and parallel I/O port or TWI/IIC(Through the short circuit cap option),Keys will be output.

For example, Press "A" key,serial port output data 0x1c, parallel I/o port output 0x1c by D7-D0. The output scan code can refer to the back of the content.

Pop-up output. In addition, two sets of buttons, TTL output when there is no buttons to press the "0", and have a button to press the output "1", after the button pop-up restore "0" (each key on keyboard effectively. In addition to pause key.

Serial, parallel, TWI/IIC can work at the same time. If there is no connection from the machine on the IIC/TWI bus, please remove short-circuit cap module above. Otherwise, the module will not be able to work properly.

Matters need attention:

- 1.TWI/IIC address is 4. Modules for the host.
- 2.Do not use the TWI/IIC should be "IIC/TWI enable" Short circuit cap to remove. Otherwise the module will not be able to work properly
3. *UART Baud rate: 19200

Performance parameter:

- 1>. working voltage:DC5V;
- 2>. Key information is sent out by serial(Baud rate 19200) and parallel
- 3>. corresponding speed;

4>. apply to PC PS2 keyboard.

5>.Module size: 39.1mm(length)*31.2mm(width)*18mm(high)

Package Included:

1 x PS2 Keyboard Driver Module Serial Port Transmission Module for arduino AVR new

<https://pastebin.com/qaxVTNrF>

<http://flint.cs.yale.edu/cs422/doc/art-of-asm/pdf/APNDXC.PDF>