



LCD1602 Function Library LCD2004 Adapter Board



Introduction

There are only 20 IO ports on UNO R3 control board. IO ports will insufficient when some sensors, relays and SD cards connected. The LCD 1602 was driven by 7 IO ports before, however, this module we produce can help you save 5 IO ports. A potentiometer included on the module is used for adjusting its backlight. A PCF8574T chip on this module is used to drive the LCD display. It communicates with control board via I2C communication method. Its default communication address is 0x27, which can change the I2C communication address through jumpers.

Product Parameters

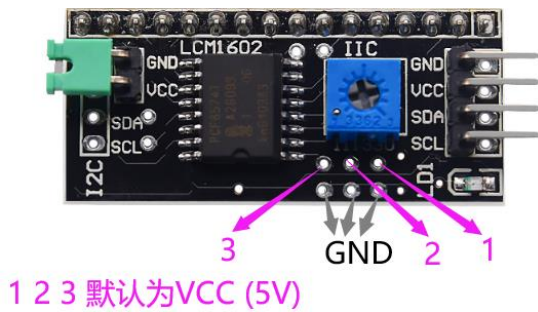
1. Supply voltage: + 5V
2. Support I2C protocol
3. With backlight, and contrast adjustable potentiometer
4. Simpler line output
5. Default device address: 0x27
6. Drive chip: PCF8574T



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Address setting method

We can set the voltage of 1 2 3 through a jumper according to the figure below. When the voltage is 5V, it is HIGH level(1). When the voltage is 0, it is Low level(0). With different voltage combinations of 1,2,3, different addresses and setting method can be set. As shown in the table below.



1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3			
0	0	0	0	0	1	0	1	0	0	1	1	1	0	0	1	0	1	1	1	0	1	1	1
0x20			0x21			0x22			0x23			0x24			0x25			0x26			0x27		

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