DAC8563 Dual 16 bit DAC Module Output Positive and Negative 10V|Light Beads| - AliExpress

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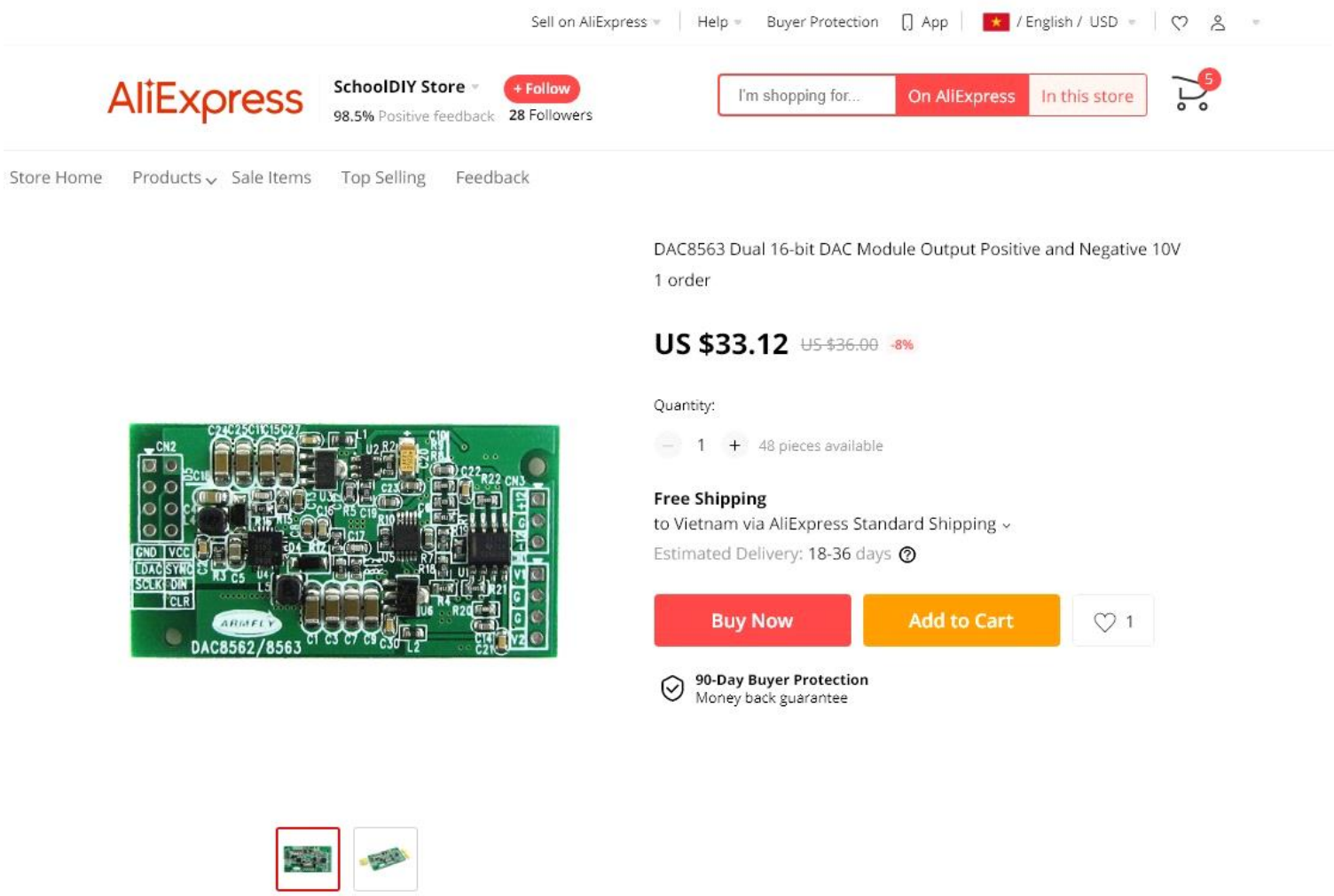

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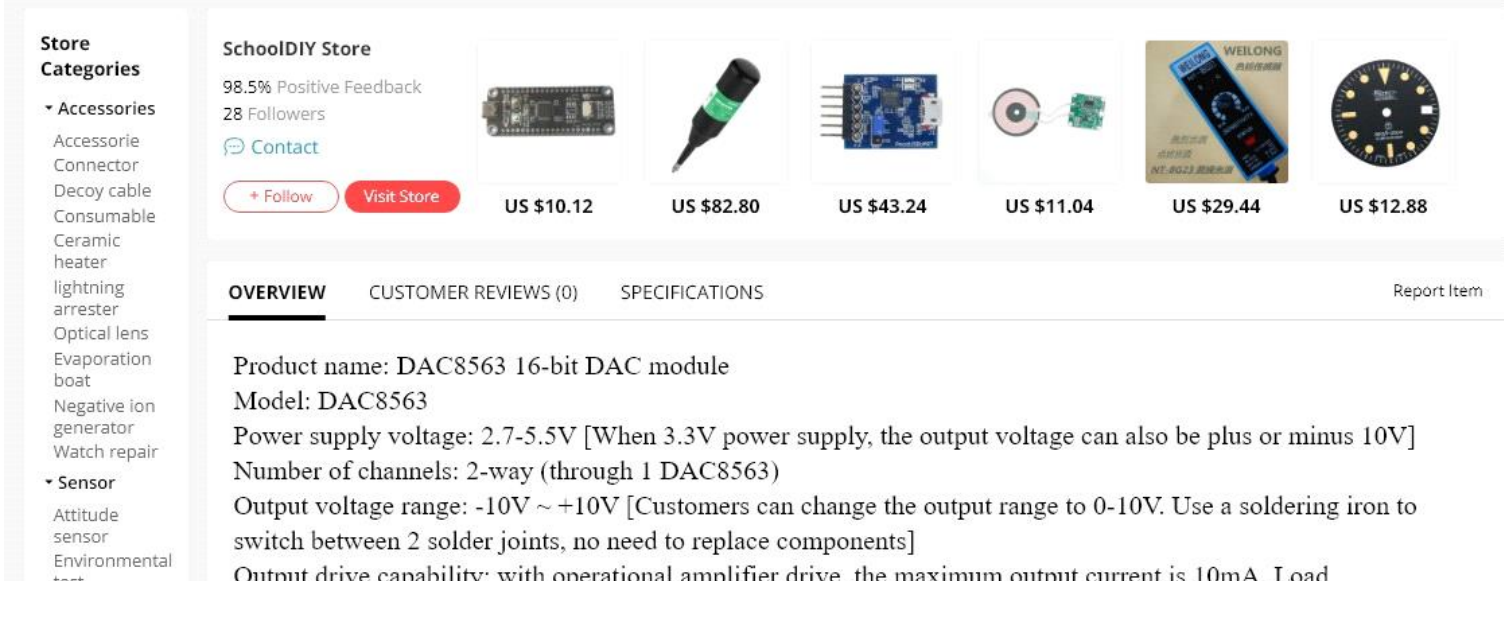

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Level Switch
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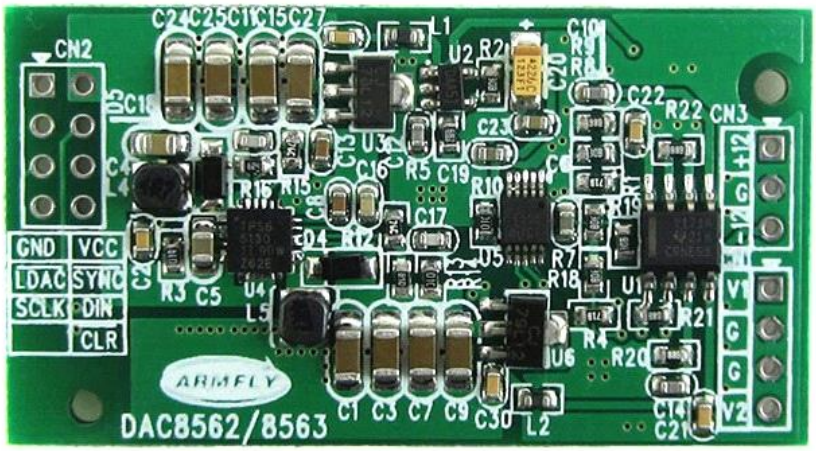
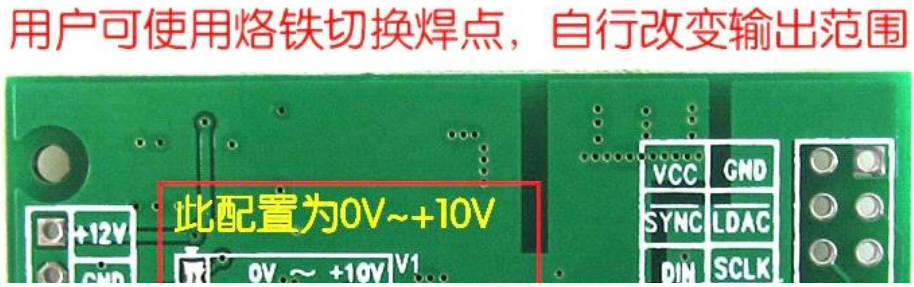
Welding machine board
IP network broadcast
IOT module
Serial port
LED module
Power supply module
Read Write module
Switch module
Device
SCR Thyristor series
Solid state relay

Output voltage range: -10V ~ +10V [Customers can change the output range to 0-10V. Use a soldering iron to switch between 2 solder joints, no need to replace components]
Output drive capability: with operational amplifier drive, the maximum output current is 10mA. Load resistance>1K ohm
Resolution: 16 bits
Power consumption: less than 20mA
MCU interface: high-speed SPI (50M) supports 3.3V and 5V microcontrollers
DAC output analog bandwidth: 350KHz
DAC output response: 10uS to 0.003% FSR

NOTE:
(1) DAC8562 and DAC8563 are fully compatible. The only difference is that when the CLR pin is valid, DAC8562 data is set to 0, and DAC8563 data is set to 32767. Note that this is the internal data of the DAC and does not indicate the output voltage. For modules with -10 ~ +10V output, DAC8562 outputs -10V and DAC8563 outputs 0V.
(2) Whether using DAC8562 or DAC8563 chip, as long as the software is not started, the default output voltage of this module is 0V.
(3) When the CLR pin is floating, the voltage is about 1.9V, which is easy to be interfered and the output is cleared. Therefore, even if the CLR control function is not used, this CLR pin needs to be connected to a fixed level (recommended to connect to GND). CLR is edge-triggered, and it is cleared only when the falling edge signal occurs.

Features:
1. The output has nothing to do with the supply voltage; the module has a positive and negative 12V boost circuit.
2. Self-adaptive MCU level (2.7-5V are all possible)
3. The output voltage can reach plus or minus 10V
4. The default output is 0V when power is on (when the software is not started)
5. Lead out the positive and negative 12V power pin headers, which is convenient for customers to use.





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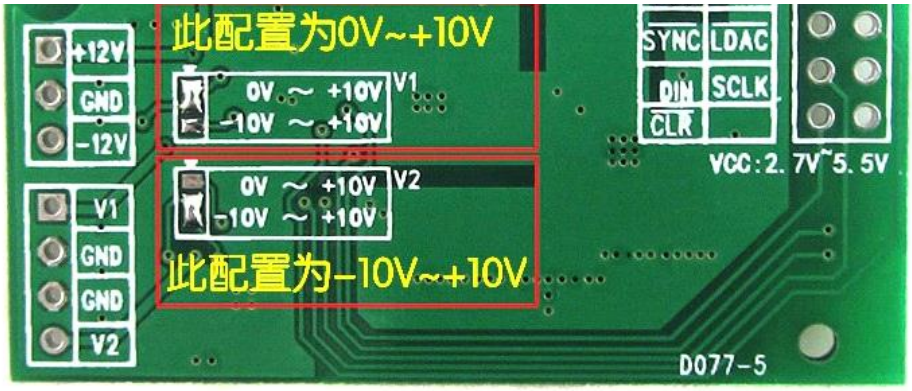


Supporting routines: Provide examples of STM32F407 and STC89C52.
STC89C52 wiring method: (11.0592M crystal oscillator) Power on and output a full amplitude triangle wave (from -10V to +10V). Any IO port can be used without hardware SPI.

DAC8562 module STC89C52 development board

VCC ------ 5.0V (3.3V)

GND ------ GND

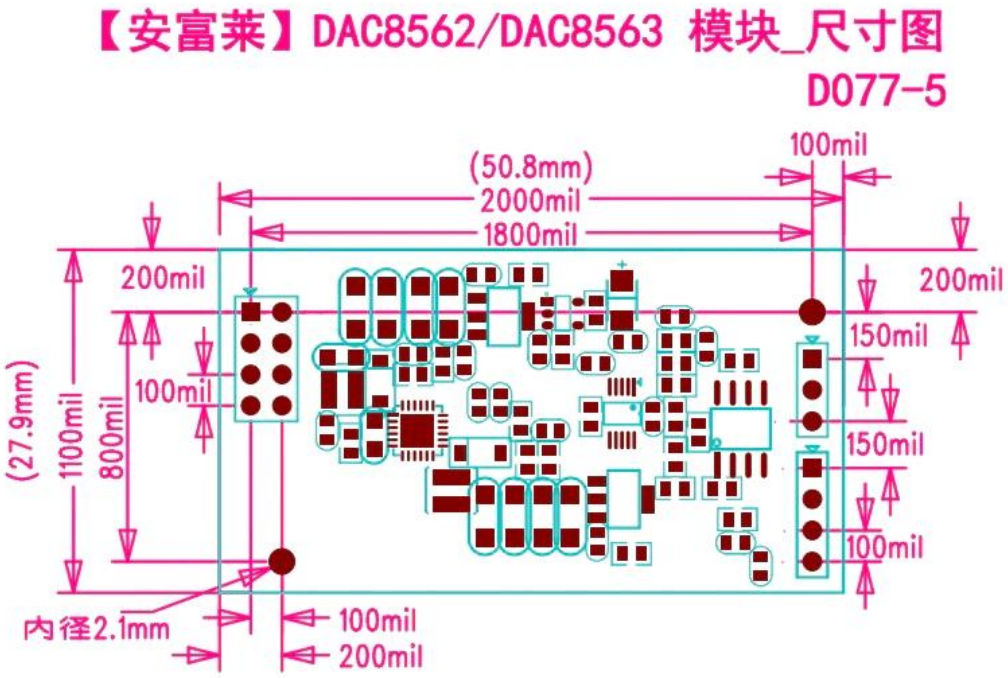
SYNC ------ P1.0 SPI chip select

LDAC - connect to GND (or the microcontroller is driven to 0)

DIN ------ P1.2 SPI MOSI

SCK ------ P1.3 SPI clock

CLR ------ Connect to GND (or the MCU is driven to 0) to avoid clearing the output when the port line is suspended



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