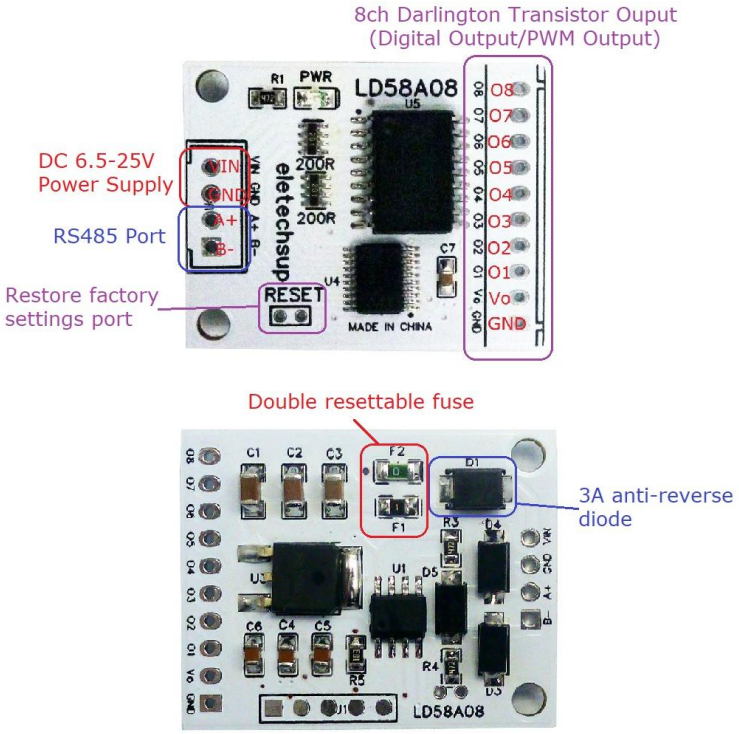
LD58A08 8CH RS485 Multi-function Controller Manual



Description:

Supply voltage:DC 6.5-25V.
Working current: 10-12MA (without any load)

MODBUS RTU Command support function code, 05/06/15/16 Write, 01/03 Read
By modifying the 485 address, up to 247 modules can be cascaded for use (please use R485 repeater for more than 16 modules)

Baud rate: 1200 2400 4800 9600 (default) 19200 38400 57600 115200BPS; Parity bit: None, Even Parity, Odd Parity

8 Darlington Transistor output (ULN2803 NPN output), the driving voltage is equal to the supply voltage. The maximum driving current of single channel is 200MA, and the maximum driving current of all channels is 800MA.

8 channels can be used as ordinary switch output, support 05/15 function code to write data, or use 06/16 function code to operate the 0X0080 register.

8 channels can also be used as PWM output. Among them, 1-6 channels are Low-Speed PWM channels (output parameters are expressed by Period/Turn-On-Time), output Period range: 0.1-6553.5 seconds; Turn-On-Time range: 0-6553.4 seconds (not greater than Cycle time).7-8 channels are High-Speed PWM

channels (output parameters are expressed by Frequency/Duty-Cycle), output Frequency range: 1-20000Hz, Duty-Cycle 0-100%

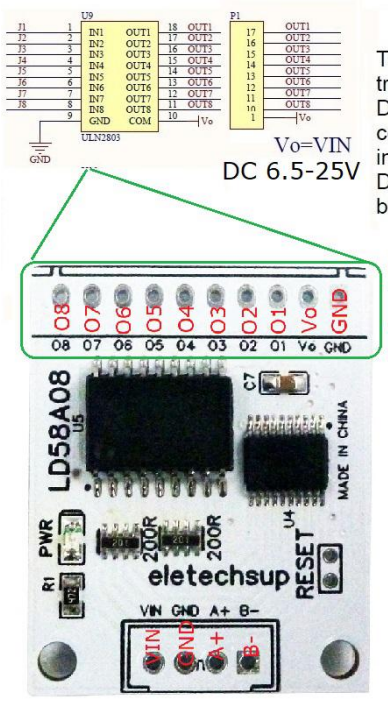
Size: 35X 28X 5MM
Weight: 5 grams

Notice:
The output port is a Darlington tube open-drain output, and the port level cannot be directly measured.
Short-circuit the RESET port for 5 seconds, the module will restore the factory settings.

If it is only used to control switch output (control relay solenoid valve), please refer to "LD58A08 MODBUS RTU Commamd(IO Version)".
If you need to control PWM devices (LED light buzzer), please refer to "LD58A08 MODBUS RTU Commamd(Full Version)".

Typical Application:
Directly drive inductive loads such as relays/solenoid valves/low power motors
LED Driver/Dimming
Multilayer Signal Lights /Warning Light /Alarm signal indicator
PLC Expanding Board

ULN2803 drive circuit diagram

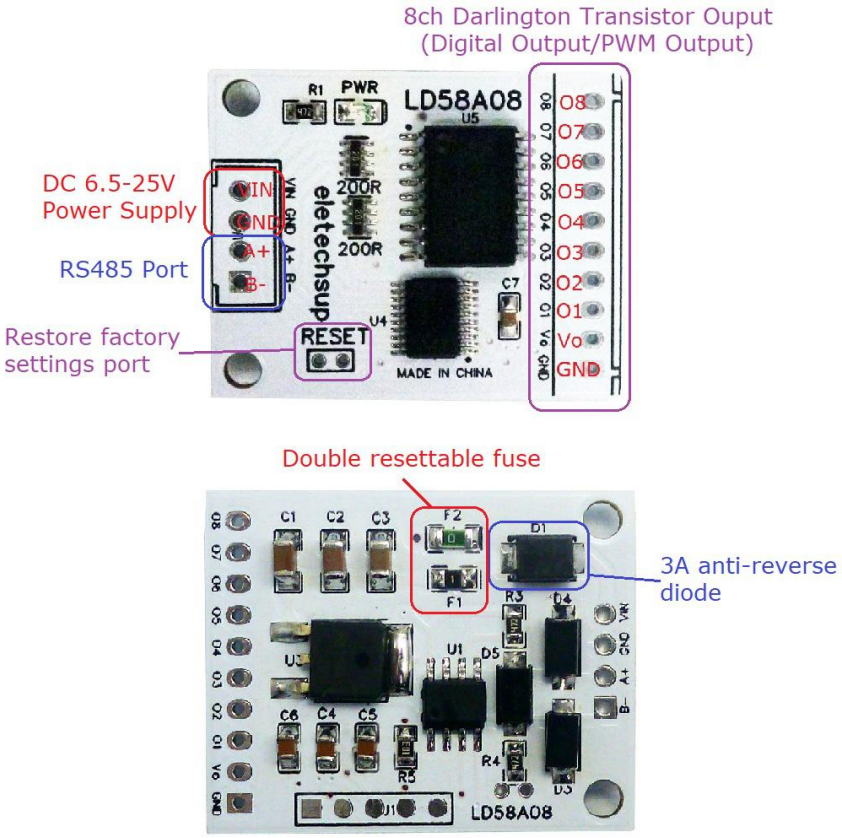


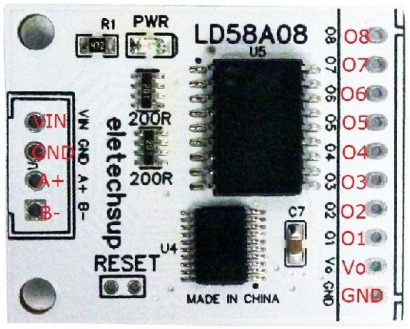
The ULN2803A device is a 50 V, 500 mA Darlington transistor array. The device consists of eight NPN Darlington pairs that feature high-voltage outputs with common-cathode clamp diodes for switching inductive loads. The collector-current rating of each Darlington pair is 500 mA. The Darlington pairs may be connected in parallel for higher current capability.

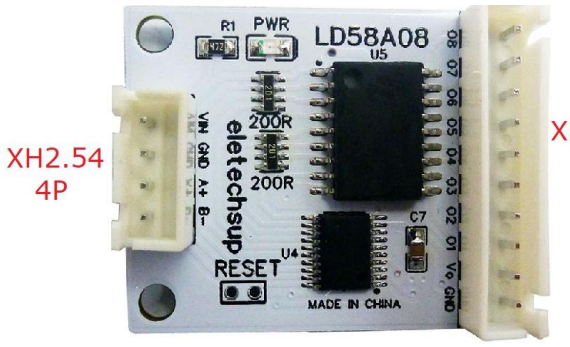
NOTE:
The output port is a Darlington tube open-drain output, and the port level cannot be directly measured.

Applications

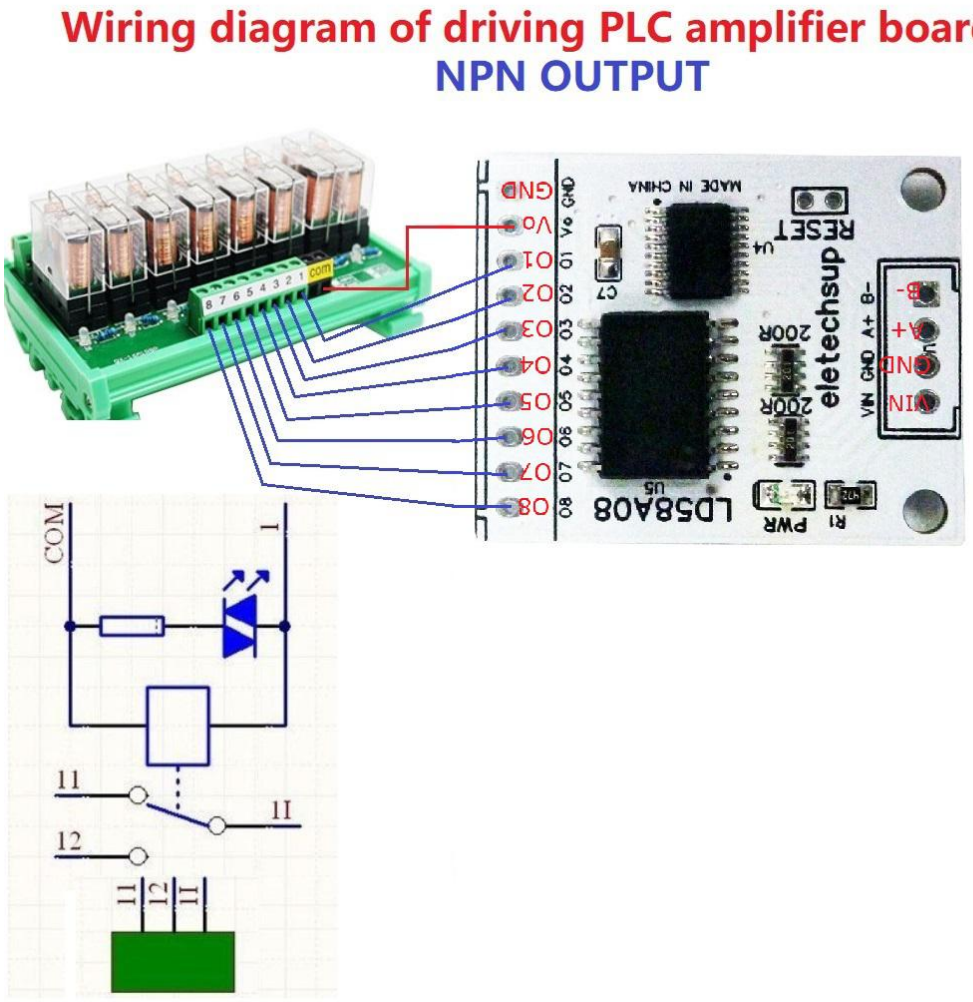
Relay Drivers
Hammer Drivers
Lamp Drivers
Display Drivers (LED and Gas Discharge)
Line Drivers
Logic Buffers
Stepper Motors
IP Camera
HVAC Valve and LED Dot Matrix


8ch Darlington Transistor Ouput
(Digital Output/PWM Output)
DC 6.5-25V
Power Supply
RS485 Port
Restore factory
settings port
Double resettable fuse
3A anti-reverse
diode
LD58A08
eletechsup
RESET
MADE IN CHINA

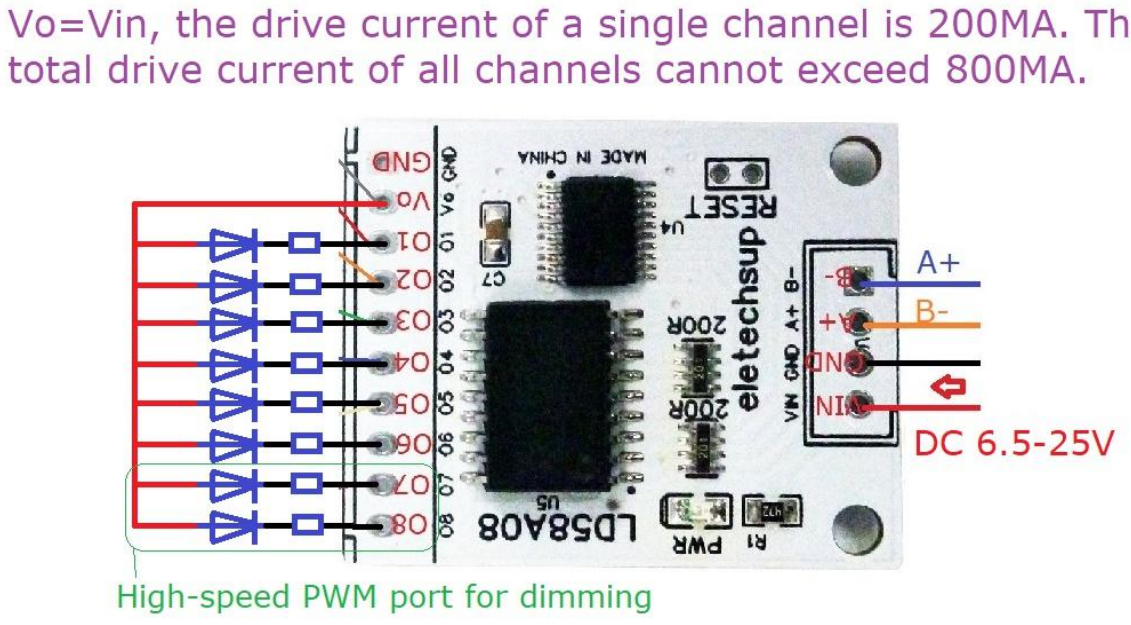

2.54MM pitch
LD58A08
eletechsup
RESET
MADE IN CHINA


XH2.54
4P
XH2.54
10P
LD58A08
eletechsup
RESET
MADE IN CHINA

1 Can directly drive inductive loads such as relays/solenoid valves/low-power motors



2 can control LED, channel 7/8 are high-speed PWM output, which can be used for dimming.



3 can drive multi-layer signal lights warning lights