

Electric Cooler Module (5V 1A)

FIT0826

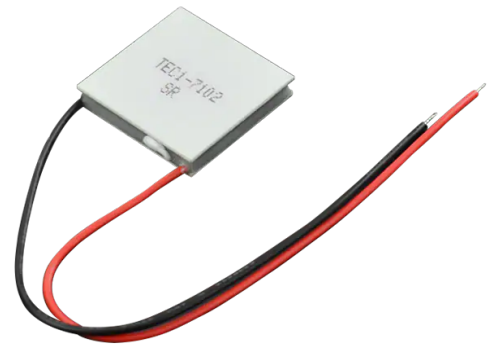
Product Overview

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Description

DFRobot Electric Cooler Module (5V 1A) is a kind of semiconductor refrigeration module using a simple application of the Peltier Thermoelectric Effect. When the current flows through different interfaces of two conductors, it can absorb and release heat at both ends of the couple respectively. This provides a continuous low-temperature environment for the CPU by its condensing surface and ensures the efficient and stable operation of the CPU.



The Cooler Module starts working when powered on with a rated voltage of 5V and rated current of 1A. This module features a small size of 30mm x 30mm x 5mm, instantaneous refrigeration, stable performance, no noise, no vibration, and can reduce temperature to -20°C at most. The FIT0826 module can be used in the environment with limited space, high-reliability requirements, and no refrigerant pollution or used for making portable refrigerators/incubators, hot and cold-water dispensers, and cooling electronic devices.

Note:

1. The side with words is for cooling, and the side without words is for dissipating heat.
2. Heat side requires a heat sink or water-cooled heat dissipation device all the time, otherwise, there is a risk of burnout.

Specifications

- 8.4V max voltage
- 5V operating voltage
- 2A max current
- Over 65°C maximum temperature differential
- -55°C ~ 83°C operating temperature range (high ambient temperature will directly affect the refrigeration efficiency)
- 30mm x 30mm x 5mm/1.18" x 1.18" x 0.20" dimensions
- 150mm ± 8mm (Red & Black wire) wire length

Mouser Part Number

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To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-electric-cooler-module-5v-1a/>