

Thermal Harvesting Module

Model TH-1

Designed to incorporate the EH-DC-1 Energy Harvesting Board, the TH-1 Thermal Harvesting Module is compact and works with regulated or unregulated output voltage. It will harvest energy and can power wireless sensors from a temperature differential of as little as 20° Fahrenheit (11.2 ° Celsius). Time to charge depends on temperature differential and amount of external storage capacitance, if included.

Applications

- Power for industrial wireless sensors
- Power for embedded devices, such as remote switches
- Power for LED warning lights and indicators

Features

- Output is enabled only after voltage threshold is reached, preventing output voltage pinning
- Overvoltage protection
- Regulated or unregulated voltage available as standard
- Standard, regulated output voltage is 3.3 volts; other voltages may be requested
- 1/4-28 threaded mounting hole
- Robust heat sink, built for industrial applications
- Water-resistant housing and connectors



Specifications

General

Output power:	44 μ W/°F (in still air)
Output voltage:	Regulated: 3.3V standard Unregulated: 5V down to 2V
Storage capacitance:	4.1mF standard; additional capacitance may be added by user
Minimum thermal input:	8°F (in still air) between hot surface and ambient air

Mechanical

Dimensions:	51mm x 51mm x 52mm / 2" x 2" x 2.06"
Weight:	209g / 7.4oz

Product information:
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