

Global Micro Thermoelectric Peltier Modules Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Micro Thermoelectric Peltier Modules market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

The global market for semiconductor was estimated at US\$ 579 billion in the year 2022, is projected to US\$ 790 billion by 2029, growing at a CAGR of 6% during the forecast period. Although some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.76%, Sensor with 16.31%, and Logic with 14.46% growth, Memory declined with 12.64% year over year. The microprocessor (MPU) and microcontroller (MCU) segments will experience stagnant growth due to weak shipments and investment in notebooks, computers, and standard desktops. In the current market scenario, the growing popularity of IoT-based electronics is stimulating the need for powerful processors and controllers. Hybrid MPUs and MCUs provide real-time embedded processing and control for the topmost IoT-based applications, resulting in significant market growth. The Analog IC segment is expected to grow gradually, while demand from the networking and communications industries is limited. Few of the emerging trends in the growing demand for Analog integrated circuits include signal conversion, automotive-specific Analog applications, and power management. They drive the growing demand for discrete power devices.

Following a strong growth of 26.2 percent in the year 2021, WSTS revised it down to a single digit growth for the worldwide semiconductor market in 2022 with a total size of US\$580 billion, up 4.4 percent. WSTS lowered growth estimation as inflation rises and end markets seeing weaker demand, especially those exposed to consumer spending. While some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.8 percent, Sensors with 16.3 percent, and Logic with 14.5 percent

growth. Memory declined with 12.6 percent year over year. In 2022, all geographical regions showed double-digit growth except Asia Pacific. The largest region, Asia Pacific, declined 2.0 percent. Sales in the Americas were US\$142.1 billion, up 17.0% year-on-year, sales in Europe were US\$53.8 billion, up 12.6% year-on-year, and sales in Japan were US\$48.1 billion, up 10.0% year-on-year. However, sales in the largest Asia-Pacific region were US\$336.2 billion, down 2.0% year-on-year.

Micro Peltier modules, also known as micro thermoelectric modules or micro Peltier coolers, are miniature devices based on the principles of the Peltier effect. They are used for localized cooling or heating applications in various industries, including electronics, medical devices, telecommunications, and photonics.

The Peltier effect is a phenomenon where an electrical current flowing through two dissimilar materials (known as Peltier elements or thermoelectric materials) can create a temperature difference. By utilizing this effect, micro Peltier modules are capable of actively cooling or heating specific areas with precise temperature control.

This report studies the global Micro Thermoelectric Peltier Modules production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Micro Thermoelectric Peltier Modules, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Micro Thermoelectric Peltier Modules that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Micro Thermoelectric Peltier Modules total production and demand, 2018-2029, (K Units)

Global Micro Thermoelectric Peltier Modules total production value, 2018-2029, (USD Million)

Global Micro Thermoelectric Peltier Modules production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Micro Thermoelectric Peltier Modules consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: Micro Thermoelectric Peltier Modules domestic production, consumption, key domestic manufacturers and share

Global Micro Thermoelectric Peltier Modules production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Micro Thermoelectric Peltier Modules production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Micro Thermoelectric Peltier Modules production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global Micro Thermoelectric Peltier Modules market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Laird Thermal Systems, TE Technology, Ferrotec, Crystal, Kryotherm, Coherent II-VI, RMT, Hi-Z Technology and TEC Microsystems, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Micro Thermoelectric Peltier Modules market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Micro Thermoelectric Peltier Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Micro Thermoelectric Peltier Modules Market, Segmentation by Type

Single-Stage Micro Peltier Modules

Multi-Stage Micro Peltier Modules

Global Micro Thermoelectric Peltier Modules Market, Segmentation by Application

Electronic Devices

Medical Devices

Optical Components

Others

Companies Profiled:

Laird Thermal Systems

TE Technology

Ferrotec

Crystal

Kryotherm

Coherent II-VI

RMT

Hi-Z Technology

TEC Microsystems

DigiKey

ECOGEN

CUI Devices

Kyocera

Wellen Tech

Watronix

Fuxin Technology

Key Questions Answered

1. How big is the global Micro Thermoelectric Peltier Modules market?
2. What is the demand of the global Micro Thermoelectric Peltier Modules market?
3. What is the year over year growth of the global Micro Thermoelectric Peltier Modules market?
4. What is the production and production value of the global Micro Thermoelectric Peltier Modules market?

5. Who are the key producers in the global Micro Thermoelectric Peltier Modules market?

6. What are the growth factors driving the market demand?

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