

Global Thermoelectric Peltier Module Market Growth 2026-2032

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Abstracts

The global Thermoelectric Peltier Module market size is predicted to grow from US\$ 920 million in 2025 to US\$ 1695 million in 2032; it is expected to grow at a CAGR of 9.0% from 2026 to 2032.

In 2025, global Thermoelectric Peltier Module production reached approximately 226573 K Pcs, with an average global market price of around 4149 USD per K Pcs.

A Thermoelectric Peltier Module is a solid-state thermal management device that uses the Peltier effect to provide active cooling and precise temperature control. It is typically constructed with multiple pairs of P-type and N-type thermoelectric semiconductor elements, electrodes, ceramic substrates, and thermal interface structures. When direct current is applied, a temperature difference is generated across the module, enabling one side to absorb heat while the other side releases heat. These devices are characterized by compact size, fast response, no moving parts, refrigerant-free operation, and reversible cooling/heating capability through current direction control. They are widely used in optical communication components, lasers, semiconductor equipment, medical and laboratory instruments, automotive thermal management, consumer electronics, industrial sensors, and aerospace and defense electronics where localized cooling, stable temperature control, or thermal cycling is required.

The upstream raw materials for Thermoelectric Peltier Module mainly include bismuth telluride, extruded aluminum, plastic granules, and copper-clad laminates. Major suppliers include Furukawa, Rogers, Tong Hsing, Ortech, Shanghai Vital, ABSCO Limited, RusTec, Reade, ESPI Metals, and Vital Materials. Downstream applications include consumer electronics, communications, medical, automotive, industrial, and defense/aerospace fields. Typical customers include Gentherm, Thermo Fisher

Scientific, Agilent Technologies, Coherent, Lumentum, Ericsson, Nokia, Roche, Siemens, Huawei, ZTE, Bosch, Continental, Haier, and Midea.

Single-line production capacity for Thermoelectric Peltier Module ranges from 500,000 to 1,000,000 Pcs, varying depending on production scale, technology, and manufacturers. Gross profit margins are between 30% and 40%.

From a supply perspective, the global Thermoelectric Peltier Module industry exhibits a competitive structure where 'Japan and Europe control high-end materials, reliability, and application solutions, while China accelerates large-scale manufacturing and domestic substitution.' Companies such as Ferrotec, KELK, Kyocera, Coherent, Tark Thermal Solutions, and Phononic have strong brand recognition and customer bases in optical communication, medical, industrial, and high-reliability temperature control applications. Meanwhile, Chinese manufacturers are expanding rapidly in standard TEC, Micro TEC, thermoelectric systems, and complete system applications, with many Chinese companies having established relatively clear local manufacturing chains. In terms of regional competition, leading customers still prioritize material consistency, cycle life, reliability verification, and batch delivery stability. Therefore, in the short term, the global high-end market will still be dominated by leading Japanese, American, and European companies, but in the medium to long term, the influence of Chinese companies in terms of cost, production capacity, and local support will continue to increase.

From a demand structure perspective, the growth of Thermoelectric Peltier Module is gradually shifting from traditional consumer small appliances and general electronic cooling to higher-value precision temperature control scenarios. Fields such as optical modules, lasers, infrared detection, medical testing, semiconductor equipment, automotive batteries, and seat temperature control have higher requirements for temperature stability, size, response speed, and reliability, thus making it easier to support high-priced and customized demands. Kyocera's 2024 Peltier module launch, which raised maximum heat absorption by 21% compared to its conventional products and highlighted automotive battery and seat temperature control applications, shows that automotive thermal management is becoming a more visible growth area for the technology. At the same time, AI computing, 800G/1.6T optical networking, and rising power density in photonic and electronic systems are increasing demand for compact heat management at the device and module level. Phononic's OFC 2025 positioning around solid-state thermal solutions for next-generation AI servers, networks, and data centers, along with its statement of more than 25 million TECs deployed, indicates that communications and data infrastructure are becoming more important to the industry's

growth narrative.

From a product roadmap perspective, the focus of industry competition is shifting from simply 'cooling' to comprehensive capabilities including 'high heat flux density, low power consumption, high cycle life, long lifespan reliability, and system-level thermal management integration.' Coherent launched its CT-Series thermoelectric coolers in 2025, emphasizing their ability to support up to 100,000 thermal cycles. Positioned for mid-range reliability applications?better than conventional product lines but lower than those with extreme cycling requirements?this demonstrates that leading international companies are stratifying their products to cover different reliability and cost ranges. Meanwhile, on the materials side, development continues to focus on Bi₂Te₃-based thermoelectric materials, ceramic substrates, welding processes, grain consistency, and packaging reliability optimization. On the application side, the focus is shifting from individual modules to the integration of cold plates, liquid cooling, temperature controllers, and complete system components. In terms of the policy environment, China's support for strategic emerging industries, green energy technologies, electronic information, and high-end manufacturing provides a foundation for continuous R&D and capacity expansion for domestic TEC (thermoelectric cooling) companies. However, the industry still faces competition from traditional compressor refrigeration, liquid cooling, heat pipe/vapor chamber, and advanced air-cooling solutions. In conclusion, the TEC industry will not become a universal replacement for all refrigeration scenarios in the future, but it will maintain definite growth in the areas of high precision, miniaturization, low vibration, and localized active temperature control.

LP Information, Inc. (LPI) ' newest research report, the ?Thermoelectric Peltier Module Industry Forecast? looks at past sales and reviews total world Thermoelectric Peltier Module sales in 2025, providing a comprehensive analysis by region and market sector of projected Thermoelectric Peltier Module sales for 2026 through 2032. With Thermoelectric Peltier Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Thermoelectric Peltier Module industry.

This Insight Report provides a comprehensive analysis of the global Thermoelectric Peltier Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Thermoelectric Peltier Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Thermoelectric Peltier Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thermoelectric Peltier Module and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Thermoelectric Peltier Module.

This report presents a comprehensive overview, market shares, and growth opportunities of Thermoelectric Peltier Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-stage Type

Multi-stage Type

Segmentation by Package Geometry:

Standard Type

Center-hole Type

Custom-shaped

Other

Segmentation by Cooling Capacity (Qcmax):

50W Below

50-100W

100W Above

Segmentation by Application:

Consumer Electronics

Communication

Medical

Automotive

Industrial

Aerospace Defense

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Ferrotec

KELK Ltd.(Komatsu)

Coherent Corp (formerly II-VI Incorporated)

Tark Thermal Solutions (formerly Laird Thermal Systems)

KYOCERA

Phononic

Guangdong Fuxin Technology

ARCTIC TEC

KJLP

Thermion Company

Z-MAX

Zhejiang Wangu Semiconductor

Xianghe Oriental Electronic

Thermonamic Electronics

TE Technology

P&N Technology

AISIN Corporation

Sensor Controls Co., Ltd.

Wakefield Thermal

Same Sky (formerly CUI Devices)

TEC Microsystems GmbH

Peltron GmbH

Kryotherm Industries

Crystal Ltd

Liaoning Lengxin Technology

Thermoelectric new energy technology

Jianju Technology

Bi Sheng Semiconductor

Henan Hongchang Electronic

Wei County Zhongtian Electron Stock Cooperative

Beijing Xinyu Kaimeng Electronic Technology

Beijing Huimao Refrigeration Equipment

Hangzhou Aurin Cooling Device

Henan Guanjing Semiconductor Technology

Hubei Sagreon New Energy Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Thermoelectric Peltier Module market?

What factors are driving Thermoelectric Peltier Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Thermoelectric Peltier Module market opportunities vary by end market size?

How does Thermoelectric Peltier Module break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Thermoelectric Peltier Module Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Thermoelectric Peltier Module by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Thermoelectric Peltier Module by Country/Region, 2021, 2025 & 2032
- 2.2 Thermoelectric Peltier Module Segment by Type
 - 2.2.1 Single-stage Type
 - 2.2.2 Multi-stage Type
 - 2.2.3 Thermoelectric Peltier Module Sales by Type
 - 2.2.3.1 Global Thermoelectric Peltier Module Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Thermoelectric Peltier Module Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Thermoelectric Peltier Module Sale Price by Type (2021-2026)
- 2.3 Thermoelectric Peltier Module Segment by Package Geometry
 - 2.3.1 Standard Type
 - 2.3.2 Center-hole Type
 - 2.3.3 Custom-shaped
 - 2.3.4 Other
 - 2.3.5 Thermoelectric Peltier Module Sales by Package Geometry
 - 2.3.5.1 Global Thermoelectric Peltier Module Sales Market Share by Package Geometry (2021-2026)
 - 2.3.5.2 Global Thermoelectric Peltier Module Revenue and Market Share by Package

Geometry (2021-2026)

2.3.5.3 Global Thermoelectric Peltier Module Sale Price by Package Geometry (2021-2026)

2.4 Thermoelectric Peltier Module Segment by Cooling Capacity (Qcmax)

2.4.1 50W Below

2.4.2 50-100W

2.4.3 100W Above

2.4.4 Thermoelectric Peltier Module Sales by Cooling Capacity (Qcmax)

2.4.4.1 Global Thermoelectric Peltier Module Sales Market Share by Cooling Capacity (Qcmax) (2021-2026)

2.4.4.2 Global Thermoelectric Peltier Module Revenue and Market Share by Cooling Capacity (Qcmax) (2021-2026)

2.4.4.3 Global Thermoelectric Peltier Module Sale Price by Cooling Capacity (Qcmax) (2021-2026)

2.5 Thermoelectric Peltier Module Segment by Application

2.5.1 Consumer Electronics

2.5.2 Communication

2.5.3 Medical

2.5.4 Automotive

2.5.5 Industrial

2.5.6 Aerospace Defense

2.5.7 Others

2.5.8 Thermoelectric Peltier Module Sales by Application

2.5.8.1 Global Thermoelectric Peltier Module Sale Market Share by Application (2021-2026)

2.5.8.2 Global Thermoelectric Peltier Module Revenue and Market Share by Application (2021-2026)

2.5.8.3 Global Thermoelectric Peltier Module Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Thermoelectric Peltier Module Breakdown Data by Company

3.1.1 Global Thermoelectric Peltier Module Annual Sales by Company (2021-2026)

3.1.2 Global Thermoelectric Peltier Module Sales Market Share by Company (2021-2026)

3.2 Global Thermoelectric Peltier Module Annual Revenue by Company (2021-2026)

3.2.1 Global Thermoelectric Peltier Module Revenue by Company (2021-2026)

3.2.2 Global Thermoelectric Peltier Module Revenue Market Share by Company (2021-2026)

- 3.3 Global Thermoelectric Peltier Module Sale Price by Company
- 3.4 Key Manufacturers Thermoelectric Peltier Module Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Thermoelectric Peltier Module Product Location Distribution
 - 3.4.2 Players Thermoelectric Peltier Module Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR THERMOELECTRIC PELTIER MODULE BY GEOGRAPHIC REGION

- 4.1 World Historic Thermoelectric Peltier Module Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Thermoelectric Peltier Module Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Thermoelectric Peltier Module Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Thermoelectric Peltier Module Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Thermoelectric Peltier Module Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Thermoelectric Peltier Module Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Thermoelectric Peltier Module Sales Growth
- 4.4 APAC Thermoelectric Peltier Module Sales Growth
- 4.5 Europe Thermoelectric Peltier Module Sales Growth
- 4.6 Middle East & Africa Thermoelectric Peltier Module Sales Growth

5 AMERICAS

- 5.1 Americas Thermoelectric Peltier Module Sales by Country
 - 5.1.1 Americas Thermoelectric Peltier Module Sales by Country (2021-2026)
 - 5.1.2 Americas Thermoelectric Peltier Module Revenue by Country (2021-2026)
- 5.2 Americas Thermoelectric Peltier Module Sales by Type (2021-2026)
- 5.3 Americas Thermoelectric Peltier Module Sales by Application (2021-2026)
- 5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Thermoelectric Peltier Module Sales by Region

6.1.1 APAC Thermoelectric Peltier Module Sales by Region (2021-2026)

6.1.2 APAC Thermoelectric Peltier Module Revenue by Region (2021-2026)

6.2 APAC Thermoelectric Peltier Module Sales by Type (2021-2026)

6.3 APAC Thermoelectric Peltier Module Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Thermoelectric Peltier Module by Country

7.1.1 Europe Thermoelectric Peltier Module Sales by Country (2021-2026)

7.1.2 Europe Thermoelectric Peltier Module Revenue by Country (2021-2026)

7.2 Europe Thermoelectric Peltier Module Sales by Type (2021-2026)

7.3 Europe Thermoelectric Peltier Module Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Thermoelectric Peltier Module by Country

8.1.1 Middle East & Africa Thermoelectric Peltier Module Sales by Country
(2021-2026)

8.1.2 Middle East & Africa Thermoelectric Peltier Module Revenue by Country
(2021-2026)

8.2 Middle East & Africa Thermoelectric Peltier Module Sales by Type (2021-2026)

8.3 Middle East & Africa Thermoelectric Peltier Module Sales by Application
(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Thermoelectric Peltier Module

10.3 Manufacturing Process Analysis of Thermoelectric Peltier Module

10.4 Industry Chain Structure of Thermoelectric Peltier Module

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Thermoelectric Peltier Module Distributors

11.3 Thermoelectric Peltier Module Customer

12 WORLD FORECAST REVIEW FOR THERMOELECTRIC PELTIER MODULE BY GEOGRAPHIC REGION

12.1 Global Thermoelectric Peltier Module Market Size Forecast by Region

12.1.1 Global Thermoelectric Peltier Module Forecast by Region (2027-2032)

12.1.2 Global Thermoelectric Peltier Module Annual Revenue Forecast by Region
(2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Thermoelectric Peltier Module Forecast by Type (2027-2032)
- 12.7 Global Thermoelectric Peltier Module Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Ferrotec

- 13.1.1 Ferrotec Company Information
- 13.1.2 Ferrotec Thermoelectric Peltier Module Product Portfolios and Specifications
- 13.1.3 Ferrotec Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 Ferrotec Main Business Overview
- 13.1.5 Ferrotec Latest Developments

13.2 KELK Ltd.(Komatsu)

- 13.2.1 KELK Ltd.(Komatsu) Company Information
- 13.2.2 KELK Ltd.(Komatsu) Thermoelectric Peltier Module Product Portfolios and Specifications
- 13.2.3 KELK Ltd.(Komatsu) Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 KELK Ltd.(Komatsu) Main Business Overview
- 13.2.5 KELK Ltd.(Komatsu) Latest Developments

13.3 Coherent Corp (formerly II-VI Incorporated)

- 13.3.1 Coherent Corp (formerly II-VI Incorporated) Company Information
- 13.3.2 Coherent Corp (formerly II-VI Incorporated) Thermoelectric Peltier Module Product Portfolios and Specifications
- 13.3.3 Coherent Corp (formerly II-VI Incorporated) Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Coherent Corp (formerly II-VI Incorporated) Main Business Overview
- 13.3.5 Coherent Corp (formerly II-VI Incorporated) Latest Developments

13.4 Tark Thermal Solutions (formerly Laird Thermal Systems)

- 13.4.1 Tark Thermal Solutions (formerly Laird Thermal Systems) Company Information
- 13.4.2 Tark Thermal Solutions (formerly Laird Thermal Systems) Thermoelectric Peltier Module Product Portfolios and Specifications
- 13.4.3 Tark Thermal Solutions (formerly Laird Thermal Systems) Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.4.4 Tark Thermal Solutions (formerly Laird Thermal Systems) Main Business Overview
- 13.4.5 Tark Thermal Solutions (formerly Laird Thermal Systems) Latest Developments

13.5 KYOCERA

13.5.1 KYOCERA Company Information

13.5.2 KYOCERA Thermoelectric Peltier Module Product Portfolios and Specifications

13.5.3 KYOCERA Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 KYOCERA Main Business Overview

13.5.5 KYOCERA Latest Developments

13.6 Phononic

13.6.1 Phononic Company Information

13.6.2 Phononic Thermoelectric Peltier Module Product Portfolios and Specifications

13.6.3 Phononic Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Phononic Main Business Overview

13.6.5 Phononic Latest Developments

13.7 Guangdong Fuxin Technology

13.7.1 Guangdong Fuxin Technology Company Information

13.7.2 Guangdong Fuxin Technology Thermoelectric Peltier Module Product Portfolios and Specifications

13.7.3 Guangdong Fuxin Technology Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Guangdong Fuxin Technology Main Business Overview

13.7.5 Guangdong Fuxin Technology Latest Developments

13.8 ARCTIC TEC

13.8.1 ARCTIC TEC Company Information

13.8.2 ARCTIC TEC Thermoelectric Peltier Module Product Portfolios and Specifications

13.8.3 ARCTIC TEC Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 ARCTIC TEC Main Business Overview

13.8.5 ARCTIC TEC Latest Developments

13.9 KJLP

13.9.1 KJLP Company Information

13.9.2 KJLP Thermoelectric Peltier Module Product Portfolios and Specifications

13.9.3 KJLP Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 KJLP Main Business Overview

13.9.5 KJLP Latest Developments

13.10 Thermion Company

13.10.1 Thermion Company Company Information

13.10.2 Thermion Company Thermoelectric Peltier Module Product Portfolios and Specifications

13.10.3 Thermion Company Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Thermion Company Main Business Overview

13.10.5 Thermion Company Latest Developments

13.11 Z-MAX

13.11.1 Z-MAX Company Information

13.11.2 Z-MAX Thermoelectric Peltier Module Product Portfolios and Specifications

13.11.3 Z-MAX Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Z-MAX Main Business Overview

13.11.5 Z-MAX Latest Developments

13.12 Zhejiang Wangu Semiconductor

13.12.1 Zhejiang Wangu Semiconductor Company Information

13.12.2 Zhejiang Wangu Semiconductor Thermoelectric Peltier Module Product Portfolios and Specifications

13.12.3 Zhejiang Wangu Semiconductor Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Zhejiang Wangu Semiconductor Main Business Overview

13.12.5 Zhejiang Wangu Semiconductor Latest Developments

13.13 Xianghe Oriental Electronic

13.13.1 Xianghe Oriental Electronic Company Information

13.13.2 Xianghe Oriental Electronic Thermoelectric Peltier Module Product Portfolios and Specifications

13.13.3 Xianghe Oriental Electronic Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Xianghe Oriental Electronic Main Business Overview

13.13.5 Xianghe Oriental Electronic Latest Developments

13.14 Thermonamic Electronics

13.14.1 Thermonamic Electronics Company Information

13.14.2 Thermonamic Electronics Thermoelectric Peltier Module Product Portfolios and Specifications

13.14.3 Thermonamic Electronics Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Thermonamic Electronics Main Business Overview

13.14.5 Thermonamic Electronics Latest Developments

13.15 TE Technology

13.15.1 TE Technology Company Information

13.15.2 TE Technology Thermoelectric Peltier Module Product Portfolios and Specifications

13.15.3 TE Technology Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 TE Technology Main Business Overview

13.15.5 TE Technology Latest Developments

13.16 P&N Technology

13.16.1 P&N Technology Company Information

13.16.2 P&N Technology Thermoelectric Peltier Module Product Portfolios and Specifications

13.16.3 P&N Technology Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 P&N Technology Main Business Overview

13.16.5 P&N Technology Latest Developments

13.17 AISIN Corporation

13.17.1 AISIN Corporation Company Information

13.17.2 AISIN Corporation Thermoelectric Peltier Module Product Portfolios and Specifications

13.17.3 AISIN Corporation Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 AISIN Corporation Main Business Overview

13.17.5 AISIN Corporation Latest Developments

13.18 Sensor Controls Co., Ltd.

13.18.1 Sensor Controls Co., Ltd. Company Information

13.18.2 Sensor Controls Co., Ltd. Thermoelectric Peltier Module Product Portfolios and Specifications

13.18.3 Sensor Controls Co., Ltd. Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 Sensor Controls Co., Ltd. Main Business Overview

13.18.5 Sensor Controls Co., Ltd. Latest Developments

13.19 Wakefield Thermal

13.19.1 Wakefield Thermal Company Information

13.19.2 Wakefield Thermal Thermoelectric Peltier Module Product Portfolios and Specifications

13.19.3 Wakefield Thermal Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.19.4 Wakefield Thermal Main Business Overview

13.19.5 Wakefield Thermal Latest Developments

13.20 Same Sky (formerly CUI Devices)

- 13.20.1 Same Sky (formerly CUI Devices) Company Information
- 13.20.2 Same Sky (formerly CUI Devices) Thermoelectric Peltier Module Product Portfolios and Specifications
- 13.20.3 Same Sky (formerly CUI Devices) Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.20.4 Same Sky (formerly CUI Devices) Main Business Overview
- 13.20.5 Same Sky (formerly CUI Devices) Latest Developments
- 13.21 TEC Microsystems GmbH
 - 13.21.1 TEC Microsystems GmbH Company Information
 - 13.21.2 TEC Microsystems GmbH Thermoelectric Peltier Module Product Portfolios and Specifications
 - 13.21.3 TEC Microsystems GmbH Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.21.4 TEC Microsystems GmbH Main Business Overview
 - 13.21.5 TEC Microsystems GmbH Latest Developments
- 13.22 Peltron GmbH
 - 13.22.1 Peltron GmbH Company Information
 - 13.22.2 Peltron GmbH Thermoelectric Peltier Module Product Portfolios and Specifications
 - 13.22.3 Peltron GmbH Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.22.4 Peltron GmbH Main Business Overview
 - 13.22.5 Peltron GmbH Latest Developments
- 13.23 Kryotherm Industries
 - 13.23.1 Kryotherm Industries Company Information
 - 13.23.2 Kryotherm Industries Thermoelectric Peltier Module Product Portfolios and Specifications
 - 13.23.3 Kryotherm Industries Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.23.4 Kryotherm Industries Main Business Overview
 - 13.23.5 Kryotherm Industries Latest Developments
- 13.24 Crystal Ltd
 - 13.24.1 Crystal Ltd Company Information
 - 13.24.2 Crystal Ltd Thermoelectric Peltier Module Product Portfolios and Specifications
 - 13.24.3 Crystal Ltd Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.24.4 Crystal Ltd Main Business Overview
 - 13.24.5 Crystal Ltd Latest Developments

13.25 Liaoning Lengxin Technology

13.25.1 Liaoning Lengxin Technology Company Information

13.25.2 Liaoning Lengxin Technology Thermoelectric Peltier Module Product Portfolios and Specifications

13.25.3 Liaoning Lengxin Technology Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.25.4 Liaoning Lengxin Technology Main Business Overview

13.25.5 Liaoning Lengxin Technology Latest Developments

13.26 Thermoelectric new energy technology

13.26.1 Thermoelectric new energy technology Company Information

13.26.2 Thermoelectric new energy technology Thermoelectric Peltier Module Product Portfolios and Specifications

13.26.3 Thermoelectric new energy technology Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.26.4 Thermoelectric new energy technology Main Business Overview

13.26.5 Thermoelectric new energy technology Latest Developments

13.27 Jianju Technology

13.27.1 Jianju Technology Company Information

13.27.2 Jianju Technology Thermoelectric Peltier Module Product Portfolios and Specifications

13.27.3 Jianju Technology Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.27.4 Jianju Technology Main Business Overview

13.27.5 Jianju Technology Latest Developments

13.28 Bi Sheng Semiconductor

13.28.1 Bi Sheng Semiconductor Company Information

13.28.2 Bi Sheng Semiconductor Thermoelectric Peltier Module Product Portfolios and Specifications

13.28.3 Bi Sheng Semiconductor Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.28.4 Bi Sheng Semiconductor Main Business Overview

13.28.5 Bi Sheng Semiconductor Latest Developments

13.29 Henan Hongchang Electronic

13.29.1 Henan Hongchang Electronic Company Information

13.29.2 Henan Hongchang Electronic Thermoelectric Peltier Module Product Portfolios and Specifications

13.29.3 Henan Hongchang Electronic Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.29.4 Henan Hongchang Electronic Main Business Overview

- 13.29.5 Henan Hongchang Electronic Latest Developments
- 13.30 Wei County Zhongtian Electron Stock Cooperative
 - 13.30.1 Wei County Zhongtian Electron Stock Cooperative Company Information
 - 13.30.2 Wei County Zhongtian Electron Stock Cooperative Thermoelectric Peltier Module Product Portfolios and Specifications
 - 13.30.3 Wei County Zhongtian Electron Stock Cooperative Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.30.4 Wei County Zhongtian Electron Stock Cooperative Main Business Overview
 - 13.30.5 Wei County Zhongtian Electron Stock Cooperative Latest Developments
- 13.31 Beijing Xinyu Kaimeng Electronic Technology
 - 13.31.1 Beijing Xinyu Kaimeng Electronic Technology Company Information
 - 13.31.2 Beijing Xinyu Kaimeng Electronic Technology Thermoelectric Peltier Module Product Portfolios and Specifications
 - 13.31.3 Beijing Xinyu Kaimeng Electronic Technology Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.31.4 Beijing Xinyu Kaimeng Electronic Technology Main Business Overview
 - 13.31.5 Beijing Xinyu Kaimeng Electronic Technology Latest Developments
- 13.32 Beijing Huimao Refrigeration Equipment
 - 13.32.1 Beijing Huimao Refrigeration Equipment Company Information
 - 13.32.2 Beijing Huimao Refrigeration Equipment Thermoelectric Peltier Module Product Portfolios and Specifications
 - 13.32.3 Beijing Huimao Refrigeration Equipment Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.32.4 Beijing Huimao Refrigeration Equipment Main Business Overview
 - 13.32.5 Beijing Huimao Refrigeration Equipment Latest Developments
- 13.33 Hangzhou Aurin Cooling Device
 - 13.33.1 Hangzhou Aurin Cooling Device Company Information
 - 13.33.2 Hangzhou Aurin Cooling Device Thermoelectric Peltier Module Product Portfolios and Specifications
 - 13.33.3 Hangzhou Aurin Cooling Device Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.33.4 Hangzhou Aurin Cooling Device Main Business Overview
 - 13.33.5 Hangzhou Aurin Cooling Device Latest Developments
- 13.34 Henan Guanjing Semiconductor Technology
 - 13.34.1 Henan Guanjing Semiconductor Technology Company Information
 - 13.34.2 Henan Guanjing Semiconductor Technology Thermoelectric Peltier Module Product Portfolios and Specifications
 - 13.34.3 Henan Guanjing Semiconductor Technology Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.34.4 Henan Guanjing Semiconductor Technology Main Business Overview

13.34.5 Henan Guanjing Semiconductor Technology Latest Developments

13.35 Hubei Sagreon New Energy Technology

13.35.1 Hubei Sagreon New Energy Technology Company Information

13.35.2 Hubei Sagreon New Energy Technology Thermoelectric Peltier Module

Product Portfolios and Specifications

13.35.3 Hubei Sagreon New Energy Technology Thermoelectric Peltier Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.35.4 Hubei Sagreon New Energy Technology Main Business Overview

13.35.5 Hubei Sagreon New Energy Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Thermoelectric Peltier Module Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Thermoelectric Peltier Module Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Single-stage Type

Table 4. Major Players of Multi-stage Type

Table 5. Global Thermoelectric Peltier Module Sales by Type (2021-2026) & (K Pcs)

Table 6. Global Thermoelectric Peltier Module Sales Market Share by Type (2021-2026)

Table 7. Global Thermoelectric Peltier Module Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Thermoelectric Peltier Module Revenue Market Share by Type (2021-2026)

Table 9. Global Thermoelectric Peltier Module Sale Price by Type (2021-2026) & (US\$/Pcs)

Table 10. Major Players of Standard Type

Table 11. Major Players of Center-hole Type

Table 12. Major Players of Custom-shaped

Table 13. Major Players of Other

Table 14. Global Thermoelectric Peltier Module Sales by Package Geometry (2021-2026) & (K Pcs)

Table 15. Global Thermoelectric Peltier Module Sales Market Share by Package Geometry (2021-2026)

Table 16. Global Thermoelectric Peltier Module Revenue by Package Geometry (2021-2026) & (\$ million)

Table 17. Global Thermoelectric Peltier Module Revenue Market Share by Package Geometry (2021-2026)

Table 18. Global Thermoelectric Peltier Module Sale Price by Package Geometry (2021-2026) & (US\$/Pcs)

Table 19. Major Players of 50W Below

Table 20. Major Players of 50-100W

Table 21. Major Players of 100W Above

Table 22. Global Thermoelectric Peltier Module Sales by Cooling Capacity (Qcmax) (2021-2026) & (K Pcs)

Table 23. Global Thermoelectric Peltier Module Sales Market Share by Cooling Capacity (Qcmax) (2021-2026)

Table 24. Global Thermoelectric Peltier Module Revenue by Cooling Capacity (Qcmax) (2021-2026) & (\$ million)

Table 25. Global Thermoelectric Peltier Module Revenue Market Share by Cooling Capacity (Qcmax) (2021-2026)

Table 26. Global Thermoelectric Peltier Module Sale Price by Cooling Capacity (Qcmax) (2021-2026) & (US\$/Pcs)

Table 27. Global Thermoelectric Peltier Module Sale by Application (2021-2026) & (K Pcs)

Table 28. Global Thermoelectric Peltier Module Sale Market Share by Application (2021-2026)

Table 29. Global Thermoelectric Peltier Module Revenue by Application (2021-2026) & (\$ million)

Table 30. Global Thermoelectric Peltier Module Revenue Market Share by Application (2021-2026)

Table 31. Global Thermoelectric Peltier Module Sale Price by Application (2021-2026) & (US\$/Pcs)

Table 32. Global Thermoelectric Peltier Module Sales by Company (2021-2026) & (K Pcs)

Table 33. Global Thermoelectric Peltier Module Sales Market Share by Company (2021-2026)

Table 34. Global Thermoelectric Peltier Module Revenue by Company (2021-2026) & (\$ millions)

Table 35. Global Thermoelectric Peltier Module Revenue Market Share by Company (2021-2026)

Table 36. Global Thermoelectric Peltier Module Sale Price by Company (2021-2026) & (US\$/Pcs)

Table 37. Key Manufacturers Thermoelectric Peltier Module Producing Area Distribution and Sales Area

Table 38. Players Thermoelectric Peltier Module Products Offered

Table 39. Thermoelectric Peltier Module Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 40. New Products and Potential Entrants

Table 41. Market M&A Activity & Strategy

Table 42. Global Thermoelectric Peltier Module Sales by Geographic Region (2021-2026) & (K Pcs)

Table 43. Global Thermoelectric Peltier Module Sales Market Share Geographic Region (2021-2026)

Table 44. Global Thermoelectric Peltier Module Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 45. Global Thermoelectric Peltier Module Revenue Market Share by Geographic Region (2021-2026)

Table 46. Global Thermoelectric Peltier Module Sales by Country/Region (2021-2026) & (K Pcs)

Table 47. Global Thermoelectric Peltier Module Sales Market Share by Country/Region (2021-2026)

Table 48. Global Thermoelectric Peltier Module Revenue by Country/Region (2021-2026) & (\$ millions)

Table 49. Global Thermoelectric Peltier Module Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas Thermoelectric Peltier Module Sales by Country (2021-2026) & (K Pcs)

Table 51. Americas Thermoelectric Peltier Module Sales Market Share by Country (2021-2026)

Table 52. Americas Thermoelectric Peltier Module Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas Thermoelectric Peltier Module Sales by Type (2021-2026) & (K Pcs)

Table 54. Americas Thermoelectric Peltier Module Sales by Application (2021-2026) & (K Pcs)

Table 55. APAC Thermoelectric Peltier Module Sales by Region (2021-2026) & (K Pcs)

Table 56. APAC Thermoelectric Peltier Module Sales Market Share by Region (2021-2026)

Table 57. APAC Thermoelectric Peltier Module Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC Thermoelectric Peltier Module Sales by Type (2021-2026) & (K Pcs)

Table 59. APAC Thermoelectric Peltier Module Sales by Application (2021-2026) & (K Pcs)

Table 60. Europe Thermoelectric Peltier Module Sales by Country (2021-2026) & (K Pcs)

Table 61. Europe Thermoelectric Peltier Module Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe Thermoelectric Peltier Module Sales by Type (2021-2026) & (K Pcs)

Table 63. Europe Thermoelectric Peltier Module Sales by Application (2021-2026) & (K Pcs)

Table 64. Middle East & Africa Thermoelectric Peltier Module Sales by Country (2021-2026) & (K Pcs)

Table 65. Middle East & Africa Thermoelectric Peltier Module Revenue Market Share by Country (2021-2026)

Table 66. Middle East & Africa Thermoelectric Peltier Module Sales by Type (2021-2026) & (K Pcs)
Table 67. Middle East & Africa Thermoelectric Peltier Module Sales by Application (2021-2026) & (K Pcs)
Table 68. Key Market Drivers & Growth Opportunities of Thermoelectric Peltier Module
Table 69. Key Market Challenges & Risks of Thermoelectric Peltier Module
Table 70. Key Industry Trends of Thermoelectric Peltier Module
Table 71. Thermoelectric Peltier Module Raw Material
Table 72. Key Suppliers of Raw Materials
Table 73. Thermoelectric Peltier Module Distributors List
Table 74. Thermoelectric Peltier Module Customer List
Table 75. Global Thermoelectric Peltier Module Sales Forecast by Region (2027-2032) & (K Pcs)
Table 76. Global Thermoelectric Peltier Module Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 77. Americas Thermoelectric Peltier Module Sales Forecast by Country (2027-2032) & (K Pcs)
Table 78. Americas Thermoelectric Peltier Module Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 79. APAC Thermoelectric Peltier Module Sales Forecast by Region (2027-2032) & (K Pcs)
Table 80. APAC Thermoelectric Peltier Module Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 81. Europe Thermoelectric Peltier Module Sales Forecast by Country (2027-2032) & (K Pcs)
Table 82. Europe Thermoelectric Peltier Module Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 83. Middle East & Africa Thermoelectric Peltier Module Sales Forecast by Country (2027-2032) & (K Pcs)
Table 84. Middle East & Africa Thermoelectric Peltier Module Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 85. Global Thermoelectric Peltier Module Sales Forecast by Type (2027-2032) & (K Pcs)
Table 86. Global Thermoelectric Peltier Module Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 87. Global Thermoelectric Peltier Module Sales Forecast by Application (2027-2032) & (K Pcs)
Table 88. Global Thermoelectric Peltier Module Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 89. Ferrotec Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 90. Ferrotec Thermoelectric Peltier Module Product Portfolios and Specifications

Table 91. Ferrotec Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 92. Ferrotec Main Business

Table 93. Ferrotec Latest Developments

Table 94. KELK?Ltd.(Komatsu) Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 95. KELK?Ltd.(Komatsu) Thermoelectric Peltier Module Product Portfolios and Specifications

Table 96. KELK?Ltd.(Komatsu) Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 97. KELK?Ltd.(Komatsu) Main Business

Table 98. KELK?Ltd.(Komatsu) Latest Developments

Table 99. Coherent Corp (formerly II-VI Incorporated) Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 100. Coherent Corp (formerly II-VI Incorporated) Thermoelectric Peltier Module Product Portfolios and Specifications

Table 101. Coherent Corp (formerly II-VI Incorporated) Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 102. Coherent Corp (formerly II-VI Incorporated) Main Business

Table 103. Coherent Corp (formerly II-VI Incorporated) Latest Developments

Table 104. Tark Thermal Solutions (formerly Laird Thermal Systems) Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 105. Tark Thermal Solutions (formerly Laird Thermal Systems) Thermoelectric Peltier Module Product Portfolios and Specifications

Table 106. Tark Thermal Solutions (formerly Laird Thermal Systems) Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 107. Tark Thermal Solutions (formerly Laird Thermal Systems) Main Business

Table 108. Tark Thermal Solutions (formerly Laird Thermal Systems) Latest Developments

Table 109. KYOCERA Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 110. KYOCERA Thermoelectric Peltier Module Product Portfolios and Specifications

Table 111. KYOCERA Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 112. KYOCERA Main Business

Table 113. KYOCERA Latest Developments

Table 114. Phononic Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 115. Phononic Thermoelectric Peltier Module Product Portfolios and Specifications

Table 116. Phononic Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 117. Phononic Main Business

Table 118. Phononic Latest Developments

Table 119. Guangdong Fuxin Technology Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 120. Guangdong Fuxin Technology Thermoelectric Peltier Module Product Portfolios and Specifications

Table 121. Guangdong Fuxin Technology Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 122. Guangdong Fuxin Technology Main Business

Table 123. Guangdong Fuxin Technology Latest Developments

Table 124. ARCTIC TEC Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 125. ARCTIC TEC Thermoelectric Peltier Module Product Portfolios and Specifications

Table 126. ARCTIC TEC Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 127. ARCTIC TEC Main Business

Table 128. ARCTIC TEC Latest Developments

Table 129. KJLP Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 130. KJLP Thermoelectric Peltier Module Product Portfolios and Specifications

Table 131. KJLP Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 132. KJLP Main Business

Table 133. KJLP Latest Developments

Table 134. Thermion Company Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 135. Thermion Company Thermoelectric Peltier Module Product Portfolios and Specifications

Table 136. Thermion Company Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 137. Thermion Company Main Business
Table 138. Thermion Company Latest Developments
Table 139. Z-MAX Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors
Table 140. Z-MAX Thermoelectric Peltier Module Product Portfolios and Specifications
Table 141. Z-MAX Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)
Table 142. Z-MAX Main Business
Table 143. Z-MAX Latest Developments
Table 144. Zhejiang Wangu Semiconductor Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors
Table 145. Zhejiang Wangu Semiconductor Thermoelectric Peltier Module Product Portfolios and Specifications
Table 146. Zhejiang Wangu Semiconductor Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)
Table 147. Zhejiang Wangu Semiconductor Main Business
Table 148. Zhejiang Wangu Semiconductor Latest Developments
Table 149. Xianghe Oriental Electronic Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors
Table 150. Xianghe Oriental Electronic Thermoelectric Peltier Module Product Portfolios and Specifications
Table 151. Xianghe Oriental Electronic Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)
Table 152. Xianghe Oriental Electronic Main Business
Table 153. Xianghe Oriental Electronic Latest Developments
Table 154. Thermonamic Electronics Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors
Table 155. Thermonamic Electronics Thermoelectric Peltier Module Product Portfolios and Specifications
Table 156. Thermonamic Electronics Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)
Table 157. Thermonamic Electronics Main Business
Table 158. Thermonamic Electronics Latest Developments
Table 159. TE Technology Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors
Table 160. TE Technology Thermoelectric Peltier Module Product Portfolios and Specifications
Table 161. TE Technology Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 162. TE Technology Main Business
Table 163. TE Technology Latest Developments
Table 164. P&N Technology Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors
Table 165. P&N Technology Thermoelectric Peltier Module Product Portfolios and Specifications
Table 166. P&N Technology Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)
Table 167. P&N Technology Main Business
Table 168. P&N Technology Latest Developments
Table 169. AISIN Corporation Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors
Table 170. AISIN Corporation Thermoelectric Peltier Module Product Portfolios and Specifications
Table 171. AISIN Corporation Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)
Table 172. AISIN Corporation Main Business
Table 173. AISIN Corporation Latest Developments
Table 174. Sensor Controls Co., Ltd. Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors
Table 175. Sensor Controls Co., Ltd. Thermoelectric Peltier Module Product Portfolios and Specifications
Table 176. Sensor Controls Co., Ltd. Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)
Table 177. Sensor Controls Co., Ltd. Main Business
Table 178. Sensor Controls Co., Ltd. Latest Developments
Table 179. Wakefield Thermal Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors
Table 180. Wakefield Thermal Thermoelectric Peltier Module Product Portfolios and Specifications
Table 181. Wakefield Thermal Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)
Table 182. Wakefield Thermal Main Business
Table 183. Wakefield Thermal Latest Developments
Table 184. Same Sky (formerly CUI Devices) Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors
Table 185. Same Sky (formerly CUI Devices) Thermoelectric Peltier Module Product Portfolios and Specifications
Table 186. Same Sky (formerly CUI Devices) Thermoelectric Peltier Module Sales (K

Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 187. Same Sky (formerly CUI Devices) Main Business

Table 188. Same Sky (formerly CUI Devices) Latest Developments

Table 189. TEC Microsystems GmbH Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 190. TEC Microsystems GmbH Thermoelectric Peltier Module Product Portfolios and Specifications

Table 191. TEC Microsystems GmbH Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 192. TEC Microsystems GmbH Main Business

Table 193. TEC Microsystems GmbH Latest Developments

Table 194. Peltron GmbH Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 195. Peltron GmbH Thermoelectric Peltier Module Product Portfolios and Specifications

Table 196. Peltron GmbH Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 197. Peltron GmbH Main Business

Table 198. Peltron GmbH Latest Developments

Table 199. Kryotherm Industries Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 200. Kryotherm Industries Thermoelectric Peltier Module Product Portfolios and Specifications

Table 201. Kryotherm Industries Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 202. Kryotherm Industries Main Business

Table 203. Kryotherm Industries Latest Developments

Table 204. Crystal Ltd Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 205. Crystal Ltd Thermoelectric Peltier Module Product Portfolios and Specifications

Table 206. Crystal Ltd Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 207. Crystal Ltd Main Business

Table 208. Crystal Ltd Latest Developments

Table 209. Liaoning Lengxin Technology Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 210. Liaoning Lengxin Technology Thermoelectric Peltier Module Product Portfolios and Specifications

Table 211. Liaoning Lengxin Technology Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 212. Liaoning Lengxin Technology Main Business

Table 213. Liaoning Lengxin Technology Latest Developments

Table 214. Thermoelectric new energy technology Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 215. Thermoelectric new energy technology Thermoelectric Peltier Module Product Portfolios and Specifications

Table 216. Thermoelectric new energy technology Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 217. Thermoelectric new energy technology Main Business

Table 218. Thermoelectric new energy technology Latest Developments

Table 219. Jianju Technology Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 220. Jianju Technology Thermoelectric Peltier Module Product Portfolios and Specifications

Table 221. Jianju Technology Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 222. Jianju Technology Main Business

Table 223. Jianju Technology Latest Developments

Table 224. Bi Sheng Semiconductor Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 225. Bi Sheng Semiconductor Thermoelectric Peltier Module Product Portfolios and Specifications

Table 226. Bi Sheng Semiconductor Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 227. Bi Sheng Semiconductor Main Business

Table 228. Bi Sheng Semiconductor Latest Developments

Table 229. Henan Hongchang Electronic Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 230. Henan Hongchang Electronic Thermoelectric Peltier Module Product Portfolios and Specifications

Table 231. Henan Hongchang Electronic Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 232. Henan Hongchang Electronic Main Business

Table 233. Henan Hongchang Electronic Latest Developments

Table 234. Wei County Zhongtian Electron Stock Cooperative Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 235. Wei County Zhongtian Electron Stock Cooperative Thermoelectric Peltier

Module Product Portfolios and Specifications

Table 236. Wei County Zhongtian Electron Stock Cooperative Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 237. Wei County Zhongtian Electron Stock Cooperative Main Business

Table 238. Wei County Zhongtian Electron Stock Cooperative Latest Developments

Table 239. Beijing Xinyu Kaimeng Electronic Technology Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 240. Beijing Xinyu Kaimeng Electronic Technology Thermoelectric Peltier Module Product Portfolios and Specifications

Table 241. Beijing Xinyu Kaimeng Electronic Technology Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 242. Beijing Xinyu Kaimeng Electronic Technology Main Business

Table 243. Beijing Xinyu Kaimeng Electronic Technology Latest Developments

Table 244. Beijing Huimao Refrigeration Equipment Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 245. Beijing Huimao Refrigeration Equipment Thermoelectric Peltier Module Product Portfolios and Specifications

Table 246. Beijing Huimao Refrigeration Equipment Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 247. Beijing Huimao Refrigeration Equipment Main Business

Table 248. Beijing Huimao Refrigeration Equipment Latest Developments

Table 249. Hangzhou Aurin Cooling Device Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 250. Hangzhou Aurin Cooling Device Thermoelectric Peltier Module Product Portfolios and Specifications

Table 251. Hangzhou Aurin Cooling Device Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 252. Hangzhou Aurin Cooling Device Main Business

Table 253. Hangzhou Aurin Cooling Device Latest Developments

Table 254. Henan Guanjing Semiconductor Technology Basic Information, Thermoelectric Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 255. Henan Guanjing Semiconductor Technology Thermoelectric Peltier Module Product Portfolios and Specifications

Table 256. Henan Guanjing Semiconductor Technology Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 257. Henan Guanjing Semiconductor Technology Main Business

Table 258. Henan Guanjing Semiconductor Technology Latest Developments

Table 259. Hubei Sagreon New Energy Technology Basic Information, Thermoelectric

Peltier Module Manufacturing Base, Sales Area and Its Competitors

Table 260. Hubei Sagreon New Energy Technology Thermoelectric Peltier Module Product Portfolios and Specifications

Table 261. Hubei Sagreon New Energy Technology Thermoelectric Peltier Module Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 262. Hubei Sagreon New Energy Technology Main Business

Table 263. Hubei Sagreon New Energy Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Thermoelectric Peltier Module
- Figure 2. Thermoelectric Peltier Module Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Thermoelectric Peltier Module Sales Growth Rate 2021-2032 (K Pcs)
- Figure 7. Global Thermoelectric Peltier Module Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Thermoelectric Peltier Module Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Thermoelectric Peltier Module Sales Market Share by Country/Region (2025)
- Figure 10. Thermoelectric Peltier Module Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Single-stage Type
- Figure 12. Product Picture of Multi-stage Type
- Figure 13. Global Thermoelectric Peltier Module Sales Market Share by Type in 2026
- Figure 14. Global Thermoelectric Peltier Module Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Standard Type
- Figure 16. Product Picture of Center-hole Type
- Figure 17. Product Picture of Custom-shaped
- Figure 18. Product Picture of Other
- Figure 19. Global Thermoelectric Peltier Module Sales Market Share by Package Geometry in 2026
- Figure 20. Global Thermoelectric Peltier Module Revenue Market Share by Package Geometry (2021-2026)
- Figure 21. Product Picture of 50W Below
- Figure 22. Product Picture of 50-100W
- Figure 23. Product Picture of 100W Above
- Figure 24. Global Thermoelectric Peltier Module Sales Market Share by Cooling Capacity (Qcmax) in 2026
- Figure 25. Global Thermoelectric Peltier Module Revenue Market Share by Cooling Capacity (Qcmax) (2021-2026)
- Figure 26. Thermoelectric Peltier Module Consumed in Consumer Electronics
- Figure 27. Global Thermoelectric Peltier Module Market: Consumer Electronics

(2021-2026) & (K Pcs)

Figure 28. Thermoelectric Peltier Module Consumed in Communication

Figure 29. Global Thermoelectric Peltier Module Market: Communication (2021-2026) & (K Pcs)

Figure 30. Thermoelectric Peltier Module Consumed in Medical

Figure 31. Global Thermoelectric Peltier Module Market: Medical (2021-2026) & (K Pcs)

Figure 32. Thermoelectric Peltier Module Consumed in Automotive

Figure 33. Global Thermoelectric Peltier Module Market: Automotive (2021-2026) & (K Pcs)

Figure 34. Thermoelectric Peltier Module Consumed in Industrial

Figure 35. Global Thermoelectric Peltier Module Market: Industrial (2021-2026) & (K Pcs)

Figure 36. Thermoelectric Peltier Module Consumed in Aerospace Defense

Figure 37. Global Thermoelectric Peltier Module Market: Aerospace Defense (2021-2026) & (K Pcs)

Figure 38. Thermoelectric Peltier Module Consumed in Others

Figure 39. Global Thermoelectric Peltier Module Market: Others (2021-2026) & (K Pcs)

Figure 40. Global Thermoelectric Peltier Module Sale Market Share by Application (2025)

Figure 41. Global Thermoelectric Peltier Module Revenue Market Share by Application in 2025

Figure 42. Thermoelectric Peltier Module Sales by Company in 2025 (K Pcs)

Figure 43. Global Thermoelectric Peltier Module Sales Market Share by Company in 2025

Figure 44. Thermoelectric Peltier Module Revenue by Company in 2025 (\$ millions)

Figure 45. Global Thermoelectric Peltier Module Revenue Market Share by Company in 2025

Figure 46. Global Thermoelectric Peltier Module Sales Market Share by Geographic Region (2021-2026)

Figure 47. Global Thermoelectric Peltier Module Revenue Market Share by Geographic Region in 2025

Figure 48. Americas Thermoelectric Peltier Module Sales 2021-2026 (K Pcs)

Figure 49. Americas Thermoelectric Peltier Module Revenue 2021-2026 (\$ millions)

Figure 50. APAC Thermoelectric Peltier Module Sales 2021-2026 (K Pcs)

Figure 51. APAC Thermoelectric Peltier Module Revenue 2021-2026 (\$ millions)

Figure 52. Europe Thermoelectric Peltier Module Sales 2021-2026 (K Pcs)

Figure 53. Europe Thermoelectric Peltier Module Revenue 2021-2026 (\$ millions)

Figure 54. Middle East & Africa Thermoelectric Peltier Module Sales 2021-2026 (K Pcs)

Figure 55. Middle East & Africa Thermoelectric Peltier Module Revenue 2021-2026 (\$

millions)

Figure 56. Americas Thermoelectric Peltier Module Sales Market Share by Country in 2025

Figure 57. Americas Thermoelectric Peltier Module Revenue Market Share by Country (2021-2026)

Figure 58. Americas Thermoelectric Peltier Module Sales Market Share by Type (2021-2026)

Figure 59. Americas Thermoelectric Peltier Module Sales Market Share by Application (2021-2026)

Figure 60. United States Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 61. Canada Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 62. Mexico Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 63. Brazil Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 64. APAC Thermoelectric Peltier Module Sales Market Share by Region in 2025

Figure 65. APAC Thermoelectric Peltier Module Revenue Market Share by Region (2021-2026)

Figure 66. APAC Thermoelectric Peltier Module Sales Market Share by Type (2021-2026)

Figure 67. APAC Thermoelectric Peltier Module Sales Market Share by Application (2021-2026)

Figure 68. China Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 69. Japan Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 70. South Korea Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 71. Southeast Asia Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 72. India Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 73. Australia Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 74. China Taiwan Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 75. Europe Thermoelectric Peltier Module Sales Market Share by Country in 2025

Figure 76. Europe Thermoelectric Peltier Module Revenue Market Share by Country (2021-2026)

Figure 77. Europe Thermoelectric Peltier Module Sales Market Share by Type (2021-2026)

Figure 78. Europe Thermoelectric Peltier Module Sales Market Share by Application (2021-2026)

Figure 79. Germany Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 80. France Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 81. UK Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 82. Italy Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 83. Russia Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 84. Middle East & Africa Thermoelectric Peltier Module Sales Market Share by Country (2021-2026)

Figure 85. Middle East & Africa Thermoelectric Peltier Module Sales Market Share by Type (2021-2026)

Figure 86. Middle East & Africa Thermoelectric Peltier Module Sales Market Share by Application (2021-2026)

Figure 87. Egypt Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 88. South Africa Thermoelectric Peltier Module Revenue Growth 2021-2026 (\$ millions)

Figure 89. Israel Thermoelectric Peltier Module Revenue Growth 20

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