

Global Automotive Thermoelectric Modules Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Thermoelectric Modules market size was valued at US\$ 168 million in 2024 and is forecast to a readjusted size of USD 299 million by 2031 with a CAGR of 8.7% during review period.

The Thermoelectric Cooler module (TEM), also known as the Thermoelectric Cooler or Thermoelectric Cooler, is a semiconductor device composed of many small and effective heat pumps. By loading a low DC voltage at both ends of the Thermoelectric Cooler, the heat will flow from one end of the component to the other. Automotive Thermoelectric Modules are modules that have obtained automotive grade certification and are used in automotive applications. They meet the requirements of the automotive industry in terms of reliability, stability and product quality. The leading companies in Automotive Thermoelectric Modules are mainly Ferrotec, Coherent and Laird Thermal Systems, and the market share of the top three companies exceeds 50%.

This report is a detailed and comprehensive analysis for global Automotive Thermoelectric Modules market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automotive Thermoelectric Modules market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Automotive Thermoelectric Modules market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Automotive Thermoelectric Modules market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Automotive Thermoelectric Modules market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive Thermoelectric Modules

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive Thermoelectric Modules market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ferrotec Material Technologies Corporation, Coherent, Laird Thermal Systems, Thermion Company, KELK, Z-MAX, Kryotherm Industries, TE Technology, Phononic, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Automotive Thermoelectric Modules market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single Stage Thermoelectric Modules

Multi-stage Thermoelectric Modules

Market segment by Application

Automotive Seat

Automotive ADAS

Automotive Laser Radar

Automotive HUD

Others

Major players covered

Ferrotec Material Technologies Corporation

Coherent

Laird Thermal Systems

Thermion Company

KELK

Z-MAX

Kryotherm Industries

TE Technology

Phononic

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automotive Thermoelectric Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Thermoelectric Modules, with price, sales quantity, revenue, and global market share of Automotive Thermoelectric Modules from 2020 to 2025.

Chapter 3, the Automotive Thermoelectric Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Thermoelectric Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Automotive Thermoelectric Modules market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive

Thermoelectric Modules.

Chapter 14 and 15, to describe Automotive Thermoelectric Modules sales channel, distributors, customers, research findings and conclusion.

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