

Global Bandgap Temperature Sensors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Bandgap Temperature Sensors market size was valued at US\$ 1389 million in 2025 and is forecast to a readjusted size of US\$ 2255 million by 2032 with a CAGR of 7.1% during review period.

In 2025, global Bandgap Temperature Sensor output reached about 4.5 billion units and global capacity of around 5.0 billion units. The average price is about USD 0.30 per unit, with gross margins near 44%. Bandgap Temperature Sensors are semiconductor-based temperature sensing devices that utilize the predictable temperature dependence of a silicon bandgap reference voltage to measure temperature with high accuracy, stability, and low power consumption. These sensors are widely integrated into analog ICs, power management chips, battery management systems, CPUs, automotive electronics, industrial control modules, and IoT devices because they provide precise on-chip thermal monitoring and compensation over a wide temperature range, typically from -55°C to +150°C. The supply chain begins with upstream raw materials and semiconductor wafer suppliers providing silicon wafers, specialty chemicals, photoresists, and packaging substrates. Midstream manufacturing involves semiconductor foundries, analog IC designers, wafer fabrication plants, and packaging/testing companies that design and produce CMOS or BiCMOS-based bandgap sensing circuits, often integrated with ADCs, voltage references, and digital interfaces such as I2C or SPI. Downstream customers include automotive electronics manufacturers, consumer electronics brands, industrial automation companies, telecommunications equipment providers, medical device manufacturers, and data center/server system integrators that use Bandgap Temperature Sensors for thermal protection, power optimization, reliability enhancement, and system safety monitoring.

This report is a detailed and comprehensive analysis for global Bandgap Temperature Sensors 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 Bandgap Temperature Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Bandgap Temperature Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Bandgap Temperature Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Bandgap Temperature Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

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 Bandgap Temperature Sensors

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 Bandgap Temperature Sensors 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 Analog Devices, Texas Instruments, STMicroelectronics, Infineon Technologies, NXP Semiconductors, Renesas Electronics, ON Semiconductor, ROHM Semiconductor, Nexperia, Vishay Intertechnology, etc.

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

Market Segmentation

Bandgap Temperature Sensors market is split by Type and by Application. For the period 2021-2032, 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

Analog Output Sensors

Digital Output Sensors

Market segment by Response Time

10 ms

Market segment by Application

Consumer Electronics

Automotive Electronics

Data Centers

Industrial Electronics

Telecom Networks

Others

Major players covered

Analog Devices

Texas Instruments

STMicroelectronics

Infineon Technologies

NXP Semiconductors

Renesas Electronics

ON Semiconductor

ROHM Semiconductor

Nexperia

Vishay Intertechnology

Diodes Incorporated

ams-OSRAM

Melexis

Allegro MicroSystems

Novosense Microelectronics

3Peak Incorporated

SG Micro Corp

Shanghai Belling

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 Bandgap Temperature Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bandgap Temperature Sensors, with price, sales quantity, revenue, and global market share of Bandgap Temperature Sensors from 2021 to 2026.

Chapter 3, the Bandgap Temperature Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bandgap Temperature Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021

to 2026.and Bandgap Temperature Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Bandgap Temperature Sensors.

Chapter 14 and 15, to describe Bandgap Temperature Sensors sales channel, distributors, customers, research findings and conclusion.

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