

Global Bandgap Temperature Sensors Market Growth 2026-2032

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Abstracts

The global Bandgap Temperature Sensors market size is predicted to grow from US\$ 1321 million in 2025 to US\$ 2198 million in 2032; it is expected to grow at a CAGR of 7.6% from 2026 to 2032.

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.

United States market for Bandgap Temperature Sensors is estimated to increase from

US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Bandgap Temperature Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Bandgap Temperature Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Bandgap Temperature Sensors players cover Analog Devices, Texas Instruments, STMicroelectronics, Infineon Technologies, NXP Semiconductors, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Bandgap Temperature Sensors 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 Bandgap Temperature Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Bandgap Temperature Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Bandgap Temperature Sensors 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 Bandgap Temperature Sensors.

This report presents a comprehensive overview, market shares, and growth

opportunities of Bandgap Temperature Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Analog Output Sensors

Digital Output Sensors

Segmentation by Response Time:

10 ms

Segmentation by Application:

Consumer Electronics

Automotive Electronics

Data Centers

Industrial Electronics

Telecom Networks

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.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Bandgap Temperature Sensors market?

What factors are driving Bandgap Temperature Sensors market growth, globally and by region?

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

How do Bandgap Temperature Sensors market opportunities vary by end market size?

How does Bandgap Temperature Sensors break out by Type, by Application?

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