

Global Bandgap Temperature Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bandgap Temperature Sensors market size is expected to reach \$ 2255 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

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.

This report studies the global Bandgap Temperature Sensors production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bandgap Temperature Sensors and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Bandgap Temperature Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bandgap Temperature Sensors total production and demand, 2021-2032, (Million Units)

Global Bandgap Temperature Sensors total production value, 2021-2032, (USD Million)

Global Bandgap Temperature Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Bandgap Temperature Sensors consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Bandgap Temperature Sensors domestic production, consumption, key domestic manufacturers and share

Global Bandgap Temperature Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Bandgap Temperature Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Bandgap Temperature Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Bandgap Temperature Sensors 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Bandgap Temperature Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Bandgap Temperature Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bandgap Temperature Sensors Market, Segmentation by Type:

Analog Output Sensors

Digital Output Sensors

Global Bandgap Temperature Sensors Market, Segmentation by Response Time:

10 ms

Global Bandgap Temperature Sensors Market, Segmentation by Application:

Consumer Electronics

Automotive Electronics

Data Centers

Industrial Electronics

Telecom Networks

Others

Companies Profiled:

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 Answered:

1. How big is the global Bandgap Temperature Sensors market?
2. What is the demand of the global Bandgap Temperature Sensors market?
3. What is the year over year growth of the global Bandgap Temperature Sensors market?
4. What is the production and production value of the global Bandgap Temperature Sensors market?
5. Who are the key producers in the global Bandgap Temperature Sensors market?
6. What are the growth factors driving the market demand?

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