

# Global VCO (Voltage Controlled Oscillator) Market Growth 2025-2031

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## Abstracts

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The global VCO (Voltage Controlled Oscillator) market size is predicted to grow from US\$ 569 million in 2025 to US\$ 541 million in 2031; it is expected to grow at a CAGR of -0.8% from 2025 to 2031.

A voltage-controlled oscillator or VCO is an electronic oscillator whose oscillation frequency is controlled by a voltage input. The applied input voltage determines the instantaneous oscillation frequency. Consequently, modulating signals applied to control input may cause frequency modulation (FM) or phase modulation (PM). A VCO may also be part of a phase-locked loop.

VCO (Voltage Controlled Oscillator) industry is relatively concentrated, manufacturers are mostly in the North America, Japan and China. Among them, Japan output value accounted for more than 31% of the total output value of global VCO (Voltage Controlled Oscillator) . SiTime and Epson are the world leading manufacturers in global VCO (Voltage Controlled Oscillator) market with the market share of 11% and 14%, in terms of revenue.

LP Information, Inc. (LPI) ' newest research report, the "VCO (Voltage Controlled Oscillator) Industry Forecast" looks at past sales and reviews total world VCO (Voltage Controlled Oscillator) sales in 2024, providing a comprehensive analysis by region and market sector of projected VCO (Voltage Controlled Oscillator) sales for 2025 through 2031. With VCO (Voltage Controlled Oscillator) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world VCO (Voltage Controlled Oscillator) industry.

This Insight Report provides a comprehensive analysis of the global VCO (Voltage Controlled Oscillator) 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 VCO (Voltage Controlled Oscillator) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global VCO (Voltage Controlled Oscillator) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for VCO (Voltage Controlled Oscillator) 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 VCO (Voltage Controlled Oscillator).

This report presents a comprehensive overview, market shares, and growth opportunities of VCO (Voltage Controlled Oscillator) market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Quartz Oscillator

Silicon Oscillator

#### Segmentation by Application:

Consumer Electronics

Networking & Telecom

Industrial

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.

SiTime

Epson

TXC

KDS Daishinku

KYOCERA Crystal Device

Silicon Labs

Fox Enterprises

Interquip

Fronter Electronics

JTC

SJK

ON Semiconductor

Z-Communications

MACOM

Crystek

MARUWA

FUJITSU

Analog Devices

Semtech

Linear Technology

RFMD

Synergy Microwave

BOWEI

Seekon Microwave

New Chengshi Electronic

### Key Questions Addressed in this Report

What is the 10-year outlook for the global VCO (Voltage Controlled Oscillator) market?

What factors are driving VCO (Voltage Controlled Oscillator) market growth, globally and by region?

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

How do VCO (Voltage Controlled Oscillator) market opportunities vary by end market size?

How does VCO (Voltage Controlled Oscillator) break out by Type, by Application?



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