

Global Quadrature Encoder 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 Quadrature Encoder market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

Quadrature encoders are also known as incremental encoders or photoelectric encoders. Quadrature encoders enable closed-loop control of many motor control applications, such as switched reluctance motors and AC induction motors.

Orthogonal coding is a typical communication coding technology, which has good anti-noise performance, can effectively eliminate the interference caused by pulse edge oscillation, and can effectively improve the accuracy of communication coding. The future prospects are better.

This report is a detailed and comprehensive analysis for global Quadrature Encoder 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 Quadrature Encoder market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Quadrature Encoder 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 Quadrature Encoder 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 Quadrature Encoder 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 Quadrature Encoder
- 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 Quadrature Encoder 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 TE Connectivity, Mouser Electronics, ELAP, Phidgets Inc., Testview, Laurel Electronics, Sparkfun, US Digital, Pololu, Parallax Inc, etc.

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

Market Segmentation

Quadrature Encoder 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

Mechanical

Optical

Magnetic

Market segment by Application

Industry

Robot

Rotating Radar

Others

Major players covered

TE Connectivity

Mouser Electronics

ELAP

Phidgets Inc.

Testview

Laurel Electronics

Sparkfun

US Digital

Pololu

Parallax Inc

Nidec Avtron

REVOTICS

Joral, LLC

INFN Genoa

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 Quadrature Encoder product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Quadrature Encoder 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 Quadrature Encoder 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 Quadrature Encoder.

Chapter 14 and 15, to describe Quadrature Encoder sales channel, distributors, customers, research findings and conclusion.

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