

Global Rubidium Atomic Clock Market Research Report 2022 Professional Edition

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Abstracts

The global Rubidium Atomic Clock market was valued at 132.31 Million USD in 2021 and will grow with a CAGR of 6.61% from 2021 to 2027, based on HNY Research newly published report.

The prime objective of this report is to provide the insights on the post COVID-19 impact which will help market players in this field evaluate their business approaches. Also, this report covers market segmentation by major market vendors, types, applications/end users and geography(North America, East Asia, Europe, South Asia, Southeast Asia, Middle East, Africa, Oceania, South America).

Rubidium atomic clock or rubidium standard, is a high accuracy frequency and time standard. Rubidium atomic clocks, the simplest and most compact of other atomic clocks, use a glass cell of rubidium gas that changes its absorption of light at the optical rubidium frequency when the surrounding microwave frequency is just right. Atomic Clock is a precision clock that depends for its operation on an electrical oscillator regulated by the natural vibration frequencies of an atomic system (as a beam of cesium atoms). Vectron International, a leader in the design and manufacture of Precision Oscillators, Timing Solutions and SAW Filters for Communication, Industrial, Military and Space applications and AccuBeat a world leader in the design and manufacture of high precision atomic clocks and time and frequency solutions, announced the introduction of the Nano Atomic Clock (NAC1) The product offering will be showcased in hall B6 booth 336, at the Electronica Show in Munich, Germany from November 8th-11th. 'We are excited that our partner AccuBeat has released the NAC1 for production' stated David Bail General Manager of Vectron's Precision Oscillator Products. 'This product bridges the gap between oven controlled crystal oscillators and traditional rubidium standards. No other product on the market provides this

combination of size, weight, power and aging.' The Nano Atomic Clock utilizes the quantum physics principle of coherent population trapping (CPT) in a rubidium vapor cell to deliver aging rates of 1 ppb/year in a package that is one tenth the size of traditional rubidium, with an order of magnitude reduction in power consumption. The aging rate is 10 times better than any similar product currently released to the market, and due to the manufacturing techniques employed in its construction, the vapor cell reliability ensures the aging rate will be met during the operational life of the unit. Benny Levy, AccuBeat CEO added, 'AccuBeat continues to develop and expand its range of Rubidium standards with the introduction of the innovative NAC1. Further versions of the NAC are already under development and will concentrate on even lower power consumption, a reduced form factor and improvements in some of the key parameters. Customers who have already purchased the NAC1 are very happy with the product and its performance.'

By Market Vendors:

Microchip Technology

Spectratime

Frequency Electronics

AccuBeat

Excelitas Technologies

Stanford Research Systems

IQD

Casic

Chengdu Spaceon Electronics

Zurich Instruments

By Types:

Production Frequency: 10MHz

By Applications:

Navigation

Military/Aerospace

Telecom/Broadcasting

Key Indicators Analysed

Market Players & Competitor Analysis: The report covers the key players of the industry including Company Profile, Product Specifications, Production Capacity/Sales, Revenue, Price and Gross Margin 2016-2027 & Sales with a thorough analysis of the market's competitive landscape and detailed information on vendors and comprehensive details of factors that will challenge the growth of major market vendors.

Global and Regional Market Analysis: The report includes Global & Regional market status and outlook 2016-2027. Further the report provides break down details about each region & countries covered in the report. Identifying its sales, sales volume & revenue forecast. With detailed analysis by types and applications.

Market Trends: Market key trends which include Increased Competition and Continuous Innovations.

Opportunities and Drivers: Identifying the Growing Demands and New Technology

Porters Five Force Analysis: The report provides with the state of competition in industry depending on five basic forces: threat of new entrants, bargaining power of suppliers, bargaining power of buyers, threat of substitute products or services, and existing industry rivalry.

Key Reasons to Purchase

To gain insightful analyses of the market and have comprehensive understanding of the global market and its commercial landscape.

Assess the production processes, major issues, and solutions to mitigate the development risk.

To understand the most affecting driving and restraining forces in the market and its impact in the global market.

Learn about the market strategies that are being adopted by leading respective organizations.

To understand the future outlook and prospects for the market.

Besides the standard structure reports, we also provide custom research according to specific requirements

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Key Data Information from Primary Sources

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Production Frequency: 10MHz Features

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