

# 2018-2023 Global Rubidium Atomic Clock Consumption Market Report

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## Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global Rubidium Atomic Clock market for 2018-2023.

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 group.

"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."

Over the next five years, LPI(LP Information) projects that Rubidium Atomic Clock will register a CAGR in terms of revenue, reach US\$ xx million by 2023, from US\$ xx million in 2017.

This report presents a comprehensive overview, market shares, and growth opportunities of Rubidium Atomic Clock market by product type, application, key manufacturers and key regions.

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product type:

Production Frequency: 5MHz

Production Frequency: 5-10MHz

Production Frequency: >10MHz

Segmentation by application:

Navigation

Military/Aerospace

Telecom/Broadcasting

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

Spain

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

Microsemi

Spectratime

Frequency Electronics

AccuBeat Ltd

Excelitas Technologies

Stanford Research Systems

IQD

Casic

Chengdu Spaceon Electronics

Zurich Instruments

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

### Research objectives

To study and analyze the global Rubidium Atomic Clock consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of Rubidium Atomic Clock market by identifying its various subsegments.

Focuses on the key global Rubidium Atomic Clock manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the Rubidium Atomic Clock with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of Rubidium Atomic Clock submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.



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