

Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Atomic Clock Market 2018, Forecast to 2023

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Abstracts

Atomic clock is a clock device that uses an electron transition frequency in the microwave, optical, or ultraviolet region of the electromagnetic spectrum of atoms as a frequency standard for its timekeeping element.

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).

Cesium beam atomic clock (Cs beam) is a device that uses as a reference the exact frequency of the microwave spectral line emitted by atoms of the metallic element cesium, in particular its isotope of atomic weight 133 ('Cs-133').

Hydrogen Maser Atomic Clocks are the most precise clocks in the world, offering the highest short-term stability: time remains stable up to 100 times better than a Rubidium clock.

The Chip Scale Atomic Clock (CSAC) was a microchip-sized atomic clock for use in portable equipment. The Microsemi SA.45s CSAC is the world's first commercially available chip scale atomic clock, providing the accuracy and stability of atomic clock technology while achieving true breakthroughs in reduced size, weight and power consumption.

SCOPE OF THE REPORT:

This report focuses on the Atomic Clock in global market, especially in North America,

Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application. North America region is the largest consumption of Atomic Clock, with a revenue market share nearly 29.91% in 2017.

The second place is Europe; following North America with the revenue market share over 29.82% in 2017. China is another important consumption market of Atomic Clock. Atomic Clock mainly has three kinds, including Rubidium Atomic Clock& CSAC, Cs Beam Atomic Clock and Hydrogen Maser Atomic Clock. The Consumption market share of Rubidium Atomic Clock& CSAC is 97.18% in 2017.

Atomic Clock used in Space & Military/Aerospace, Scientific & Metrology Research, Telecom/Broadcasting etc. The sales market share of Atomic Clock used in Scientific & Metrology Research is 31.97% in 2017.

Briefly speaking, in the next few years, Atomic Clock industry will still be a relative steady industry. Sales of Atomic Clock have brought a lot of opportunities, there will more companies enter into this industry.

The worldwide market for Atomic Clock is expected to grow at a CAGR of roughly 5.2% over the next five years, will reach 460 million US\$ in 2023, from 340 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Microsemi

Orolia Group

Oscilloquartz SA

Frequency Electronics

VREMYA-CH JSC

CASIC

Stanford Research Systems

Chengdu Spaceon Electronics

AccuBeat Ltd

KVARZ

IQD

Excelitas Technologies

Shanghai Astronomical Observatory

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Rubidium Atomic Clock & CSAC

Cesium Atomic Clock

Hydrogen Maser Atomic Clock

Market Segment by Applications, can be divided into

Space & Military/Aerospace

Scientific & Metrology Research

Telecom/Broadcasting

Others

There are 15 Chapters to deeply display the global Atomic Clock market.

Chapter 1, to describe Atomic Clock Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Atomic Clock, with sales, revenue, and price of Atomic Clock, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Atomic Clock, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Atomic Clock market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Atomic Clock sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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