

# Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Vector Network Analyzer (VNA) Market 2018, Forecast to 2023

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## Abstracts

The Vector Network Analyzer (VNA), VNA is a form of RF network analyzer widely used for RF design applications. A Vector Network Analyzer (VNA) is a test system that enables the RF performance of radio frequency (RF) and microwave devices to be characterized in terms of network scattering parameters, or S parameters. The information provided by the Vector Network Analyzer (VNA) is then used to ensure that the RF design of the circuit is optimized to provide the best performance.

### SCOPE OF THE REPORT:

This report focuses on the Vector Network Analyzer (VNA) 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. At present, in developed countries, the Vector Network Analyzer (VNA) industry is generally at a more advanced level. The world's large enterprises are mainly concentrated in USA, Germany and Japan. Meanwhile, foreign companies have more advanced equipment, strong R & D capability, and leading technical level. However, foreign companies' manufacturing cost is relatively higher, compared with Chinese companies. Vector Network Analyzer (VNA) is a technology-intensive industry. Most of products are purchased through the bidding, which need high request to providers include the technology, cost, service and so on. With the development of Chinese Vector Network Analyzer (VNA) production technology, Chinese communications operators gradually shift to the domestic manufacturers. Many provides had a rapid growth through the bidding, like The 41st Institute of CETC (China).which is the leader in the Vector Network Analyzer (VNA) industry in China. China's Vector Network Analyzer (VNA) industry has developed into a national wide

status with certain research and production capacity, industry product mix has gradually improved, currently. China has become a large international consumption country of Vector Network Analyzer (VNA), but the production technology is relatively laggard to produce some low-end product. Although the new production lines are increasing, and the high-end product is still relying on import.

The global Vector Network Analyzer (VNA) industry has reached a production volume of approximately 6675 Units in 2016. The global Vector Network Analyzer (VNA) industry has reached the revenue of approximately 317 million USD in 2016. The top three manufacturers are Keysight Technologies (US), Rohde & Schwarz (Germany), Anritsu (Japan), Advantest (Japan) and The 41st Institute of CETC (China). Each of production, respectively with global revenue market share as 41.83%, 23.84% 14.39%, 5.59% and 3.53% in 2015. Other key manufacturers include Transcom Instruments, Copper Mountain Technologies, National Instrument, GS Instrument, OMICRON Lab, AWT Global, Chengdu Tianda Instrument and Nanjing PNA Instruments.

The key consumption markets locate at developed countries. The USA takes the market share of 25.91%, followed by China with 24.2%. We tend to believe this industry becomes more and more mature, and the consumption increasing rate will show a smooth curve. Despite the presence of competition problems, due to the clear global recovery trend, investors are still optimistic about this area. In future there will be more new investment enter into the field. Although Vector Network Analyzer (VNA) have a high gross margin and still brings a lot of opportunities, the study group recommends the new entrants just having money but without technical advantage and upstream and downstream support do not to enter into this field.

The worldwide market for Vector Network Analyzer (VNA) is expected to grow at a CAGR of roughly 2.3% over the next five years, will reach 370 million US\$ in 2023, from 330 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Keysight Technologies

Rohde & Schwarz

Anritsu

Advantest

The 41st Institute of CETC

Transcom Instruments

Copper Mountain Technologies

National Instrument

GS Instrument

OMICRON Lab

AWT Global

Chengdu Tianda Instrument

Nanjing PNA Instruments

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

0-10GHz

10-50GHz

50+ GHz

Market Segment by Applications, can be divided into

Communications

Automotive

Electronic Manufacturing

Aerospace and Defense

Others

There are 15 Chapters to deeply display the global Vector Network Analyzer (VNA) market.

Chapter 1, to describe Vector Network Analyzer (VNA) Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Vector Network Analyzer (VNA), with sales, revenue, and price of Vector Network Analyzer (VNA), 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 Vector Network Analyzer (VNA), 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, Vector Network Analyzer (VNA) market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Vector Network Analyzer (VNA) sales channel,

distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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