

Global Metamaterial Technologies Market 2018 by Manufacturers, Regions, Type and Application, Forecast to 2023

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Abstracts

A Metamaterial is a material engineered to have a property that is not found in naturally occurring materials. They are made from assemblies of multiple elements fashioned from composite materials such as metals or plastics. The materials are usually arranged in repeating patterns, at scales that are smaller than the wavelengths of the phenomena they influence. Metamaterials derive their properties not from the properties of the base materials, but from their newly designed structures. Their precise shape, geometry, size, orientation and arrangement gives them their smart properties capable of manipulating electromagnetic waves: by blocking, absorbing, enhancing, or bending waves, to achieve benefits that go beyond what is possible with conventional materials.

Scope of the Report:

Potential applications of metamaterials are diverse and include optical filters, medical devices, remote aerospace applications, sensor detection and infrastructure monitoring, smart solar power management, crowd control, radomes, high-frequency battlefield communication and lenses for high-gain antennas, improving ultrasonic sensors, and even shielding structures from earthquakes. Metamaterials offer the potential to create superlenses. Such a lens could allow imaging below the diffraction limit that is the minimum resolution that can be achieved by conventional glass lenses. A form of 'invisibility' was demonstrated using gradient-index materials. Acoustic and seismic metamaterials are also research areas. Metamaterial technology is interdisciplinary and involves such fields as electrical engineering, electromagnetics, classical optics, solid state physics, microwave and antenna engineering, optoelectronics, material sciences, nanoscience and semiconductor engineering.

The worldwide market for Metamaterial Technologies is expected to grow at a CAGR of

roughly xx% over the next five years, will reach 600 million US\$ in 2023, from 600 million US\$ in 2017, according to a new GIR (Global Info Research) study.

This report focuses on the Metamaterial Technologies 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.

Market Segment by Manufacturers, this report covers

Applied EM Inc

Alight Technologies ApS

Colossal Storage Corporation

Echodyne Corporation

Evolv Technology

Fianium Ltd

Fractal Antenna Systems, Inc. (FRACTAL)

Inframat Corporation

Kymeta Corporation

Luminus Devices Inc

Medical Wireless Sensing Ltd. (MediWiSe)

Metamagnetics Inc

Others

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

Radio and Microwave

Photonic

Terahertz

Acoustic

Others

Market Segment by Applications, can be divided into

Communication and Radar

Imaging

Solar

Acoustic Devices

Others

There are 15 Chapters to deeply display The global Metamaterial Technologies market.

Chapter 1, to describe Metamaterial Technologies Introduction, product scope, market

overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Metamaterial Technologies, with sales, revenue, and price of Metamaterial Technologies, 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 Metamaterial Technologies, 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, Metamaterial Technologies market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

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

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