

Metamaterials - Global Market Outlook (2017-2026)

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Abstracts

According to Statistics MRC, the Global Metamaterials Market is accounted for \$90.25 million in 2017 and is expected to reach \$7,145.21 million by 2026 growing at a CAGR of 62.5% during the forecast period. Variety in design functionalities, increasing focus on developing efficient solar power solutions and rise in wireless communication services are the key driving factors for the market growth. However, factors such as cost of synthesization of metamaterials and lack of awareness are hindering the market growth.

Metamaterials refer to specially engineered composite materials with superior electromagnetic properties, in comparison with traditional composites found in nature. Metamaterial show its exceptional physical properties such as, negative permittivity & permeability and negative index of refraction have attracted significant research and development activities. The significance of metamaterial is that it can affect waves of electromagnetic radiation or sound and allowing engineers to manipulate wave propagation by modifying unit cells in different ways.

Based on Material Types, Photonic metamaterials held steady growth during predicted period owing to the growing use in development of cloaking devices and transformation optics. A few photonic metamaterials show magnetism at very high frequencies, which result in powerful magnetic coupling. Geographically, Asia-Pacific market acquired highest CAGR during the forecast period due to fast growth of the consumer electronics, medical, and aerospace & defense sectors in the region, primarily driven by key countries such as China and India.

Some of the key players profiled in the Metamaterials Market include Aegis Technologies, Applied EM, Alps Electric Co Ltd, Echodyne Inc, Fractal Antenna Systems Inc, JEM Engineering LLC, Harris Corporation, Kymeta Corporation, Mediwise, Metamagnetics Inc, Metamaterial Technologies Inc, Metashield LLC, Multiwave

Technologies AG, Microwave Measurement Systems LLC, Nanohmics Inc, Newport Corporation, Nanosonic Inc, Nanoscribe GmbH, Phoebus Optoelectronics LLC, Photonic Lattice Inc, Plasmonics Inc and Teraview.

Material Types Covered:

Frequency Selective Surface

Photonic Metamaterials

Tunable Metamaterials

Terahertz Metamaterials

Electromagnetic Metamaterials

End Users Covered:

Aerospace and Defense

Automotive

Consumer Electronics

Energy and Power

Medical

Telecommunication

Applications Covered:

Superlens

Sound filtering

Solar panel

Sensors

Seismic protection

Medical Imaging

Antenna

Absorber

Other Applications

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Metamaterials - Global Market Outlook (2017-2026)

Market share assessments for the regional and country level segments

Market share analysis of the top industry players

Strategic recommendations for the new entrants

Market forecasts for a minimum of 9 years of all the mentioned segments, sub segments and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

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