Antennas for Systems and Devices: Technologies and Global Markets

Description: The global antenna market will grow from $16.8 billion in 2016 to $22.5 billion by 2021, with a compound annual growth rate (CAGR) of 6.0% for the period of 2016-2021.

This report provides:

- An overview of the global market and technologies for antennas for systems and devices.
- Analyses of global market trends, with data from 2015, 2016 and projections of compound annual growth rates (CAGRs) through 2021.
- Discussion of antenna applications in different sectors, their benefits, their limitations, and their prospects in qualitative and quantitative terms.
- Identification of different classification criteria: technologies (flat panel/medium-range directive antennas, miniature without fractal, miniature fractal, medium-gain directional antenna, high-gain reflector, and smart antennas), and materials (metal, ceramic, PTFE, and electrified gas).
- A breakdown of the antenna market for each of the sectors (aviation, telematics, TV/radio infrastructure and user equipment, satellite communication infrastructure, mobile phones, wireless telecommunications infrastructure, computing applications, medical applications, defense and surveillance applications and residential/industrial/commercial premises and user devices) along with antenna technologies and materials.
- Profiles of major players in the industry.
- Classifications of patents based on end-user applications.

This report presents the forecasts for antennas for 2016 through 2021 on a volume and value basis.

Sales values are presented in U.S. dollars, while shipment volumes are presented in million units.

These forecasts are further broken down by antenna technology, antenna material, end application and geographical region.

The report covers the following antenna technologies:

- Flat panel/short-range antenna.
- Patch, miniature, embedded and other low power antenna.
- Fractal antenna.
- Medium gain antenna.
- High gain reflector antenna.
- Smart antenna.

Breakdown of materials includes:

- Metallic.
- Others.

Breakdown by end applications includes:

- Aviation.
- Telematics.
- Television (TV)/radio infrastructure and user equipment.
- Satellite communication infrastructure (barring terrestrial and marine components).
- Mobile phones.
- Wireless telecommunications infrastructure.
- Computing applications.
- Medical applications.
- Defense and Surveillance applications.
- Residential/industrial/commercial premises and user devices.

The regional breakdown focuses on the following geographical areas:
- The Americas.
- Europe, the Middle East and Africa (EMEA).
- Asia-Pacific (APAC).

The Executive Summary chapter provides a snapshot of the dollar sales and shipment volumes for the overall antenna market.

The Global Markets for Antennas: Breakdown by Technologies, Material, and End applications chapter introduces the antenna with key concepts central to understanding its functioning. It also introduces IoT and explains its impact on the prospects of antennas. It then analyzes the different classification criteria: technologies, materials, geographical regions and verticals. In conclusion, it provides a snapshot of the end-user application sector classification.

The End application-Specific Analysis chapter breaks down the antenna market for each of the end applications along antenna technologies, antenna materials, and geographical regions. The chapter will thus provide the reader with an in-depth view of the dynamics of individual end applications vis-à-vis antenna prospects.

The Major Participants in the Antenna Industry chapter identifies the major categories of stakeholders involved in the development and commercialization of antenna technology.

The U.S. Patent Analysis chapter covers innovations that impact antenna systems. Patents are categorized by applications and technology as well as on the basis of allocation by year, assignee countries and assignee organizations.

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