

Nanophotonics - Advanced Technologies and Global Market (2009 - 2014)

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Abstracts

Nanophotonics is born out of the combination of three major sciences: photonics, nanotechnology, and optoelectronics. While photonics and optoelectronics have revolutionized the electronics and semiconductors market, nanotechnology has the greatest potential for further improvement, and hence has emerged as the most sought-after technology by big companies and research laboratories. In spite of it being in the nascent stage, nanophotonics is expected to make it to the mainstream market owing to its higher power efficiency, thermal resistivity, and operational life.

The nanophotonic component market is growing at a robust rate for the last few years and is expected to maintain a very high CAGR for the next few years. The market is expected to reach US\$3.6 billion in 2014 at a CAGR of 100.7% from 2009 to 2014.

Untapped market potential and benefits are the primary factors for the early adoption. Though most of the nanophotonic products are still under research, the available products such as nanophotonic LEDs, nanophotonic PV cells, nanophotonic OLEDs have been very successful in the market. Nanophotonic LEDs has the largest market share of US\$106 million in 2009. However, considering the pace of progress in various other segments like near-field-optics, optical amplifiers, optical switches and holographic memory, it can be safely ascertained that holographic memory and optical switches are expected to have the highest growth rate in the next five years. Nanophotonic LEDs will still continue to be largest segment albeit with a slow growth rate.

Asia accounts for the largest share of the global nanophotonics market followed by Europe and the U.S. Since the nanophotonic components were introduced early in the Asian market, it is expected to see the lowest growth rate from 2009 to 2014 while the

U.S. is expected to grow at a relatively high CAGR of 161.1% in 2014.

Market estimates and forecast

The report provides in-depth market estimates and forecasts for the global weight management market. The segmentation is as follows:

Nanophotonics components – products:

Nanophotonic LED, nanophotonic OLED, nanophotonic near field optics, nanophotonic photovoltaic cells, nanophotonic optical amplifiers, nanophotonic optical switches and nanophotonic holographic data storage system

Nanophotonics – applications:

Indicators and signs, lighting, non-visual applications, telecommunications, entertainment and consumer electronics

Nanophotonics – ingredients:

Photonic crystals, plasmonics, nanotubes, nanoribbons and quantum dots

Each section will provide market data, market drivers, trends and opportunities, top-selling products, key players, and competitive outlook. This report will also provide more than 100 market tables for various geographic regions covering the sub-segments and micro-markets. In addition, the report also provides 50 company profiles for each of its sub-segments.

What makes our reports unique?

- We provide the longest market segmentation chain in this industry- not many reports provide market breakdown upto level 5.
- Each report is about 250 pages with 100+ market data tables, 40 competitive company profiles, analysis of 300 patents and a minimum of 50 micro markets, which are collectively exhaustive and mutually exclusive.
- No single report by any other publisher provides market data for all the segments viz products, services, applications, ingredients, technology, and stakeholders in a single report for all the four geographies - US, Europe, APAC, ROW.
- We provide 10% customization. Normally it is seen that clients do not find specific market intelligence that they are looking for. Our customization will ensure that you

necessarily get the market intelligence you are looking for and we get a loyal customer.

- 15 pages of high level analysis including benchmarking strategies, best practices and the market's cash cows (BCG matrix). We conduct detailed market positioning, product positioning and competitive positioning. Entry strategies, gaps and opportunities are identified for all the stakeholders.

- Comprehensive market analysis for the following sectors:

Pharmaceuticals, Medical Devices, Biotechnology, Semiconductor and Electronics, Energy and Power Supplies, Food and Beverages, Chemicals, Advanced Materials, Industrial Automation, and Telecom and IT. We also analyze retailers and super-retailers, technology providers, and research and development (R&D) companies.

Key questions answered

- Which are the high-growth segments/cash cows and how is the market segmented in terms of applications, products, services, ingredients, technologies, and stakeholders?
- What are market estimates and forecasts; which markets are doing well and which are not?
- Where are the gaps and opportunities; what is driving the market?
- Which are the key playing fields? Which are the winning edge imperatives?
- How is the competitive outlook; who are the main players in each of the segments; what are the key selling products; what are their strategic directives, operational strengths and product pipelines? Who is doing what?

Powerful Research and analysis

The analysts working with MarketsandMarkets come from renowned publishers and market research firms, globally, adding their expertise and domain understanding. We get the facts from over 22,000 news and information sources, a huge database of key industry participants and draw on our relationships with more than 900 market research companies across the world. We, at MarketsandMarkets, are inspired to help our clients grow by providing qualitative business insights with our huge market intelligence repository.

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