

Aarkstore.com : Nanophotonics- Advanced Technologies and Global Market (2009 - 2014)

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Nanophotonics to Revolutionize the Market

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 and a similar growth pattern can be expected for the nanophotonics devices market as well. This market is expected to grow from a current market size of US\$1.8 billion to US\$58 billion in 2014.

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.

In the nanophotonic LED market, the high beam LED has the highest market share followed by UV LED. In the fastest growing market of optical amplifiers, it is the optical fiber amplifier that commands the highest CAGR in the period 2009 to 2014 followed by semiconductor amplifiers. HDSS is also expected to grow with a CAGR comparable to that of optical amplifiers. OLED is estimated to be the slowest growing market. Lowering production costs and improving operational efficiencies would ensure opening of new opportunities for the nanophotonics market.

The market is very concentrated with only the market leaders like Osram, IBM, Samsung SDI, JDSU, etc doing extensive research in nanophotonics but as most of the application areas are related to electronics, this market is expected to attract a large number of players that would in turn increase the degree of competition.

Growth of Nanophotonic Products from 2009 – 2014

The graph indicates the forecasted growth rate of nanophotonics products from the year 2009 to 2014. The optical amplifiers are expected to grow at the maximum growth rate followed by the HDSS devices. The growth in the nanophotonics market is primarily due to the increasing demand from the Asian countries.

The key players in the nanophotonics component market are working at developing new products by

forging strategic alliances with renowned universities, research laboratories and nanomaterial companies. These developments are focused on improving the operational parameters for the nanophotonic devices and grab the early mover's advantages in the market.

Our patent analysis indicates that the U.S. has filed the highest number of patent applications in nanophotonics since 2006 followed by Europe. In the products category, nanophotonic LED accounts for the highest number of patents followed by nanostructures while OLED accounts for the lowest number.

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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?

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