

Photonic Crystals Market by Type (One-dimensional, Two-dimensional, and Three-dimensional), Application (Optical Fiber, LED, Image Sensor, Solar & PV Cell, Laser, Discrete & Integrated Optical Component, and Others), and End User (Industrial, Aerospace & Defense, Life Sciences & Healthcare, and R&D & Others) - Global Opportunity Analysis and Industry Forecast, 2014-2022

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Abstracts

Photonic Crystals are attractive optical materials for controlling and manipulating the flow of light. The global market for components and modules using Photonic Crystals indicates a CAGR of 33.1% and is estimated to reach \$20.4 billion in 2017.

The major drivers would be its applications having extra-ordinary growth i.e. CAGR of 61.6% in Solar and PV cells and CAGR of 39% in LED segment with forecasts value of \$4.1 Billion and \$7.5 billion in 2017 respectively.

The Photonic Crystals are seen as an alternative for semi-conductor fabrication; however, there would be a need for strong technological advancements to overpower the existing electronic segment. The semi-conductor foundry market has seen a 16.2% rise from 2011 to 2012 and reached \$24.6 Billion value.

The key players in this market are Opalux, Corning Incorporated, Epistar, Fianium, Furukawa Electric, Luxtaltek Corporation, Palo Alto Research Center (PARC), Sandia and Lockheed Martin, L.P. (HP Labs), ICX Photonics.

KEY BENEFITS

It provides information about current market situation, changing market

dynamics, expected trends and market intelligence.

Porters five forces and SWOT analysis are provided to aid in developing future strategies.

Information about key players and their strategic moves.

Micro level analysis based on construction strategies, applications and geography.

It helps in understanding these market segments and its scope.

Competitive strategy analysis for effective planning and execution of business plan.

Photonic Crystals Market Key Segments BY CONSTRUCTION STRATEGIES

One-dimensional Photonic Crystals

Two-dimensional Photonic Crystals

Three-dimensional Photonic Crystals

BY GEOGRAPHY

North America

Europe

Asia

ROW

BY APPLICATIONS

Displays

Optical fibers

LEDs

Discrete and Integrated optical components

Image sensors

Solar and PV cells

Lasers

Biosources

KEY AUDIENCES

Photonic Crystals providing companies, dealers and wholesalers

Potential entrants interested in entering this market

Experts and people involved in the development of components and modules

Academic and Research institutes

End-application device vendors who can use the superior attributes of Photonic Crystals in their products.

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Other major players in the industry include:

Agilent Technologies
ICX Photonics Inc.
Luminus Devices Inc.
NEC Corporation
Advance Photonic Crystals LLC
Epistar
MicroContinuum Inc.
Carolinas Photonic Consortium (CPC)
Omniguide
Lightwave Power Inc.

The above list of companies is not profiled in the report, but can be added based on client interest.

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FIGURE 35. REST OF LAMEA: PHOTONIC CRYSTALS MARKET, 2014-2022
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