

# **Printed and Flexible Sensor Market By Type (Biosensors, Capacitive, Piezoelectric, Piezoresistive, Photodetectors, Digital x-ray , Hybrid CMOs, Temperature, Gas), Industry Trends, Estimation & Forecast, 2016 - 2024**

<https://marketpublishers.com/r/P6B6F9D81ABEN.html>

Date: September 2017

Pages: 152

Price: US\$ 4,421.00 (Single User License)

ID: P6B6F9D81ABEN

## **Abstracts**

Global Printed and Flexible Sensor Market was valued at \$7.2 billion in 2016, and is projected to reach \$12.3 billion by 2024, having a CAGR of 7% during the forecast period of 2017 to 2024.

Sensors play an important role in printed electronics. Miniaturization of sensors, as a result of enhancement and development in sensor manufacturing technology, has hiked the demand of printed and flexible sensors in numerous applications. Sensors are majorly used to sense and measure a physical property in order to record, indicate, or respond to it. Manufacturers are focusing on printing of electrodes, as it helps in a cost effective fabrication of sensor arrays over large area on a flexible substrate. The printed and flexible sensors are in the initial phase of their commercialization. This technology is widely finding its use in various applications such as healthcare, safety and security, packaging, automotive, packaging and others. There are various printing processes which are followed while printing the electrodes such as dip-pen nanolithography, vapor-phase printing, inkjet, micro contact, nano-imprinting, lamination, laser processing, transfer printing, roll to roll photolithography, etching and others.

## **MARKET DETERMINANTS**

The benefits of printed sensors over conventional sensors and a swift growth in individual application segment are the major driving factors for the growth of printed and flexible sensor market. Moreover, the flexible printed sensors are cheaper, simple in

design, highly efficient, light weighted and versatile in use. However, challenges in conductive ink printing and insufficient technological accessibility are some major restraints to the market growth. On the other hand, the growing internet of things (IoT) market will drive the demand for printed and flexible sensors as objects in IoT require sensors to transmit the data over networks.

## **MARKET SEGMENTATION**

The segmentation of the printed and flexible sensor market is done on the basis of type and geography. By type, the market is segmented into biosensors, capacitive, piezoelectric, piezoresistive, photo detectors, digital X-ray, hybrid CMOs, temperature and gas sensors. Geographically, the market is bifurcates as North America, Europe, Asia-Pacific and Rest of World.

Piezoresistive sensor is the fastest growing segment in this market and its growth is primarily attributed to rapidly growing end-user market such as automotive and consumer durable markets. Among major geographies, North America lead the market in 2016, and is expected to dominate the global market for the entire forecast period.

Some major market players are Canatu Oy, Fujifilm Holding Corporation, ISORG, Interlink Electronics, Inc., KWJ Engineering, Peratech Holdco Limited, Synkera Technologies, Inc., T+Ink, Inc., Tekscan, Inc., Thin Film Electronics ASA, GSI Technologies LLC.

### **PRINTED AND FLEXIBLE SENSOR market segmentation**

#### **By Type**

Biosensors

Capacitive

Piezoelectric

Piezoresistive

Photodetectors

Digital x-ray

Hybrid CMOs

Temperature

Gas

### By Geography

North America

Europe

APAC

ROW

### KEY MARKET PLAYERS

Canatu Oy

Fujifilm Holding Corporation

ISORG

Interlink Electronics, Inc.

KWJ Engineering

Peratech Holdco Limited

Synkera Technologies, Inc.

T+Ink, Inc.

Tekscan, Inc.

Thin Film Electronics ASA

GSI Technologies LLC

## Contents

### CHAPTER 1. INTRODUCTION

#### 1.1. RESEARCH METHODOLOGY

- 1.1.1. ERC desk research
- 1.1.2. ERC data synthesis
- 1.1.3. Data validation and market feedback
- 1.1.4. ERC data sources

#### 1.2. RESEARCH SCOPE

### CHAPTER 2. MARKET OVERVIEW

#### 2.1. RESEARCH SUMMARY

#### 2.2. VALUE CHAIN ANALYSIS

#### 2.3. FIVE FORCES ANALYSIS

#### 2.4. MARKET PLAYER POSITIONING

#### 2.5. DEMAND FORECAST

#### 2.6. BUSINESS INTELLIGENCE & STRATEGIC ANALYSIS

#### 2.7. MARKET DETERMINANTS

- 2.7.1. Key impacting factors
- 2.7.2. Drivers
  - 2.7.2.1. Advantage over conventional sensors
  - 2.7.2.2. Growth in individual application segments
- 2.7.3. Restraints
  - 2.7.3.1. Challenges in conductive ink printing
- 2.7.4. Opportunities
  - 2.7.4.1. Huge opportunities due to growing internet of things (IOT)

### CHAPTER 3. GLOBAL PRINTED AND FLEXIBLE SENSOR MARKET BY TYPE

#### 3.1. SEGMENT OUTLINE

#### 3.2. GLOBAL PRINTED AND FLEXIBLE SENSOR MARKET REVENUE BY TYPE, 2016-2024

#### 3.3. BIOSENSORS

- 3.3.1. Trend analysis
- 3.3.2. Market growth indicators
- 3.3.3. Global biosensors market revenue by region, 2016-2024

#### 3.4. CAPACITIVE

- 3.4.1. Trend analysis
- 3.4.2. Market growth indicators
- 3.4.3. Global capacitive market revenue by region,2016-2024
- 3.5. PIEZOELECTRIC
  - 3.5.1. Trend analysis
  - 3.5.2. Market growth indicators
  - 3.5.3. Global piezoelectric market revenue by region,2016-2024
- 3.6. PIEZORESISTIVE
  - 3.6.1. Trend analysis
  - 3.6.2. Market growth indicators
  - 3.6.3. Global piezoresistive market revenue by region,2016-2024
- 3.7. PHOTODETECTORS
  - 3.7.1. Trend analysis
  - 3.7.2. Market growth indicators
  - 3.7.3. Global photodetectors market revenue by region,2016-2024
- 3.8. DIGITAL X-RAY
  - 3.8.1. Trend analysis
  - 3.8.2. Market growth indicators
  - 3.8.3. Global digital x-ray market revenue by region,2016-2024
- 3.9. HYBRID CMOS
  - 3.9.1. Trend analysis
  - 3.9.2. Market growth indicators
  - 3.9.3. Global hybrid cmos market revenue by region,2016-2024
- 3.10. TEMPERATURE
  - 3.10.1. Trend analysis
  - 3.10.2. Market growth indicators
  - 3.10.3. Global temperature market revenue by region,2016-2024
- 3.11. GAS
  - 3.11.1. Trend analysis
  - 3.11.2. Market growth indicators
  - 3.11.3. Global gas market revenue by region,2016-2024

## **CHAPTER 4. GLOBAL PRINTED AND FLEXIBLE SENSORS MARKET BY GEOGRAPHY**

- 4.1. SEGMENT OUTLINE
- 4.2. GLOBAL PRINTED AND FLEXIBLE SENSORS MARKET REVENUE BY GEOGRAPHY,2016-2024
- 4.3. NORTH AMERICA

- 4.3.1. Current trends
- 4.3.2. Growth and opportunities
- 4.3.3. North America printed and flexible sensors market revenue by type,2016-2024
- 4.4. EUROPE
  - 4.4.1. Current trends
  - 4.4.2. Growth and opportunities
  - 4.4.3. Europe printed and flexible sensors market revenue by type,2016-2024
- 4.5. ASIA-PACIFIC
  - 4.5.1. Current trends
  - 4.5.2. Growth and opportunities
  - 4.5.3. APAC printed and flexible market revenue by type,2016-2024
- 4.6. REST OF THE WORLD
  - 4.6.1. Current trends
  - 4.6.2. Growth and opportunities
  - 4.6.3. ROW printed and flexible market revenue by type,2016-2024

## **CHAPTER 5. KEY VENDOR PROFILES**

- 5.1. EKSCAN,INC.
  - 5.1.1. Company overview
  - 5.1.2. Company snapshot
  - 5.1.3. Business overview
  - 5.1.4. Strategic Analysis
- 5.2. PERATECH LTD.
  - 5.2.1. Company overview
  - 5.2.2. Company snapshot
  - 5.2.3. Business overview
  - 5.2.4. Strategic Analysis
- 5.3. THIN FILM ELECTRONICS ASA
  - 5.3.1. Company overview
  - 5.3.2. Company snapshot
  - 5.3.3. Business overview
  - 5.3.4. Strategic Analysis
- 5.4. FUJIFILM HOLDING CORPORATION
  - 5.4.1. Company overview
  - 5.4.2. Company snapshot
  - 5.4.3. Business overview
  - 5.4.4. Strategic Analysis
- 5.5. GSI TECHNOLOGIES LLC.

- 5.5.1. Company overview
- 5.5.2. Company snapshot
- 5.5.3. Business overview
- 5.5.4. Strategic Analysis
- 5.6. ISORG SA
  - 5.6.1. Company overview
  - 5.6.2. Company snapshot
  - 5.6.3. Business overview
  - 5.6.4. Strategic Analysis
- 5.7. PST SENSORS LTD.
  - 5.7.1. Company overview
  - 5.7.2. Company snapshot
  - 5.7.3. Business overview
  - 5.7.4. Strategic Analysis
- 5.8. KWJ ENGINEERING INC.
  - 5.8.1. Company overview
  - 5.8.2. Company snapshot
  - 5.8.3. Business overview
  - 5.8.4. Strategic Analysis
- 5.9. INTERLINK ELECTRONICS INC.
  - 5.9.1. Company overview
  - 5.9.2. Company snapshot
  - 5.9.3. Business overview
  - 5.9.4. Strategic Analysis
- 5.10. SYNKERA TECHNOLOGIES, INC
  - 5.10.1. Company overview
  - 5.10.2. Company snapshot
  - 5.10.3. Business overview
  - 5.10.4. Strategic Analysis



## List Of Tables

### LIST OF TABLES

TABLE NO 1. GLOBAL PRINTED AND FLEXIBLE SENSOR MARKET REVENUE BY TYPE,2016-2024(\$MILLION)

TABLE NO 2. GLOBAL BIOSENSORS MARKET REVENUE BY REGION,2016-2024(\$MILLION)

TABLE NO 3. GLOBAL CAPACITIVE MARKET REVENUE BY REGION,2016-2024(\$MILLION)

TABLE NO 4. GLOBAL PIEZOELECTRIC MARKET REVENUE BY REGION,2016-2024(\$MILLION)

TABLE NO 5. GLOBAL PIEZORESISTIVE MARKET REVENUE BY REGION,2016-2024(\$MILLION)

TABLE NO 6. GLOBAL PHOTODETECTORS MARKET REVENUE BY REGION,2016-2024(\$MILLION)

TABLE NO 7. GLOBAL DIGITAL X-RAY MARKET REVENUE BY REGION,2016-2024(\$MILLION)

TABLE NO 8. GLOBAL HYBRID CMOS MARKET REVENUE BY REGION,2016-2024(\$MILLION)

TABLE NO 9. GLOBAL TEMPERATURE MARKET REVENUE BY REGION,2016-2024(\$MILLION)

TABLE NO 10. GLOBAL GAS MARKET REVENUE BY REGION,2016-2024(\$MILLION)

TABLE NO 11. GLOBAL PRINTED AND FLEXIBLE SENSORS MARKET REVENUE BY GEOGRAPHY,2016-2024(\$MILLION)

TABLE NO 12. NORTH AMERICA PRINTED AND FLEXIBLE SENSORS MARKET REVENUE BY TYPE,2016-2024(\$MILLION)

TABLE NO 13. EUROPE PRINTED AND FLEXIBLE SENSORS MARKET REVENUE BY TYPE,2016-2024(\$MILLION)

TABLE NO 14. APAC PRINTED AND FLEXIBLE MARKET REVENUE BY TYPE,2016-2024(\$MILLION)

TABLE NO 15. ROW PRINTED AND FLEXIBLE MARKET REVENUE BY TYPE,2016-2024(\$MILLION)

## List Of Figures

### LIST OF FIGURES

FIGURE NO 1. VALUE CHAIN ANALYSIS

FIGURE NO 2. FIVE FORCES ANALYSIS

FIGURE NO 3. MARKET SHARE ANALYSIS

FIGURE NO 4. INVESTMENT OPPORTUNITIES

FIGURE NO 5. KEY STRATEGIC ATTEMPTS (%SHARE)

FIGURE NO 6. KEY IMPACTING FACTORS

FIGURE NO 7. GLOBAL PRINTED AND FLEXIBLE SENSOR MARKET REVENUE BY TYPE,2016-2024 (\$MILLION)

FIGURE NO 8. GLOBAL BIOSENSORS MARKET REVENUE BY REGION,2016-2024(\$MILLION)

FIGURE NO 9. GLOBAL CAPACITIVE MARKET REVENUE BY REGION,2016-2024(\$MILLION)

FIGURE NO 10. GLOBAL PIEZOELECTRIC MARKET REVENUE BY REGION,2016-2024(\$MILLION)

FIGURE NO 11. GLOBAL PIEZORESISTIVE MARKET REVENUE BY REGION,2016-2024(\$MILLION)

FIGURE NO 12. GLOBAL PHOTODETECTORS MARKET REVENUE BY REGION,2016-2024(\$MILLION)

FIGURE NO 13. GLOBAL DIGITAL X-RAY MARKET REVENUE BY REGION,2016-2024(\$MILLION)

FIGURE NO 14. GLOBAL HYBRID CMOS MARKET REVENUE BY REGION,2016-2024(\$MILLION)

FIGURE NO 15. GLOBAL TEMPERATURE MARKET REVENUE BY REGION,2016-2024(\$MILLION)

FIGURE NO 16. GLOBAL GAS MARKET REVENUE BY REGION,2016-2024(\$MILLION)

FIGURE NO 17. GLOBAL PRINTED AND FLEXIBLE SENSORS MARKET REVENUE BY GEOGRAPHY,2016-2024(\$MILLION)

FIGURE NO 18. NORTH AMERICA PRINTED AND FLEXIBLE SENSORS MARKET REVENUE BY TYPE,2016-2024(\$MILLION)

FIGURE NO 19. EUROPE PRINTED AND FLEXIBLE SENSORS MARKET REVENUE BY TYPE,2016-2024(\$MILLION)

FIGURE NO 20. APAC PRINTED AND FLEXIBLE MARKET REVENUE BY TYPE,2016-2024(\$MILLION)

FIGURE NO 21. ROW PRINTED AND FLEXIBLE MARKET REVENUE BY

TYPE,2016-2024(\$MILLION)

## I would like to order

Product name: Printed and Flexible Sensor Market By Type (Biosensors, Capacitive, Piezoelectric, Piezoresistive, Photodetectors, Digital x-ray , Hybrid CMOs, Temperature, Gas), Industry Trends, Estimation & Forecast, 2016 - 2024

Product link: <https://marketpublishers.com/r/P6B6F9D81ABEN.html>

Price: US\$ 4,421.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/P6B6F9D81ABEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970