

South Korea Printed Circuit Board Market Forecast 2024-2032

Market Report | 2024-08-12 | 140 pages | Inkwood Research

AVAILABLE LICENSES:

- Single User Price \$1100.00
- Global Site License \$1500.00

Report description:

KEY FINDINGS

The South Korea printed circuit board market is anticipated to develop at a CAGR of 5.09% over the forecast period of 2024-2032. The base year regarded for the studied market is 2023, and the forecasting years are from 2024 to 2032.

MARKET INSIGHTS

The printed circuit board industry in South Korea is experiencing significant growth due to rising demand for eco-friendly printed circuit boards. As environmental concerns gain importance, consumers and manufacturers are shifting towards sustainable practices, driving innovations in PCB production. This includes the use of biodegradable and recyclable materials, with companies investing in research and development to create more efficient and environmentally friendly manufacturing processes. Simultaneously, the growing adoption of industrial automation and control systems is contributing to the market's expansion. Industries across South Korea are implementing advanced automation technologies to enhance productivity and efficiency, relying heavily on PCBs for their operation. This trend toward automation is expected to continue, further increasing the demand for high-quality PCBs designed to meet the stringent requirements of automated systems.

The rising demand for smart electronics is another key driver of the PCB market. Smart devices, from smartphones to home automation systems, depend on sophisticated PCBs for their functionality. As consumers seek more advanced and interconnected devices, manufacturers are developing advanced PCBs to support the complex needs of smart electronics, fueling continuous growth in the South Korea PCB market.

Additionally, the applications of semiconductors are expanding rapidly. PCBs are integral components in semiconductor devices, and their growing use in various technologies is boosting the market. From consumer electronics to industrial machinery, semiconductors and their associated PCBs are essential for a wide range of applications, driving the need for more advanced and reliable PCBs.

The use of electronics in diverse applications is also increasing. Beyond traditional uses, electronics are now vital in sectors such as healthcare, automotive, and aerospace. This diversification creates new opportunities for the market, as specialized boards are needed to meet the unique demands of these industries.

Moreover, the explosive rise in internet usage is contributing to the market's expansion. The proliferation of internet-connected devices, from smartphones to smart home systems, relies on efficient and high-performance PCBs. As more devices connect to the internet, the demand for robust PCBs that support seamless connectivity and data transfer is increasing, driving the South Korea printed circuit board market forward.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

SEGMENTATION ANALYSIS

The South Korea printed circuit board market segmentation incorporates the market by raw material, substrate, and application. The raw material segment is further segregated into epoxy resin, glass fabric, phenolic resin, kraft paper, and other raw materials. The glass fabric printed circuit technology introduces a new PCB material that minimizes the space between fiber weaves, significantly enhancing resistance to moisture and preventing system malfunctions and short circuits.

Further, this advanced PCB design offers protection from moisture, electrostatic discharge, power failures, and high temperatures. An innovative lamination process produces a flatter, thinner weave, resulting in a smoother surface for laser drilling and improved dimensional stability. The manufacturing process is now more flexible and efficient, yielding glass fabric with superior properties for high-performance circuitry. This advancement is crucial as the increasing penetration of smart devices drives the demand for sophisticated PCBs that effectively connect and support electronic components with conductive tracks, copper sheets, and pads. Phenolic resins are widely utilized in various industrial products, including the manufacturing of circuit boards for PCBs. Phenolic laminates are produced by saturating base materials like paper, cotton, or fiberglass with phenolic resin and then laminating them under heat and pressure. These resins find applications in numerous industries, such as electrical and chemical due to their desirable properties like mechanical strength, chemical resistance, and thermal stability. Phenolic-paper laminates, known by NEMA descriptions like FR-4 and FR-2, are commonly used in PCB production. The phenolic resins, formed by a condensation reaction between formaldehyde and phenol, penetrate and cross-link with base materials to enhance their electrical and thermal properties.

Furthermore, the demand for phenolic resin in the PCB market is driven by its cost-effectiveness, strength, and stability. Phenolic resin-based PCBs, often made with paper armored with phenolic resin and copper foil, are less expensive while offering adequate performance. These PCBs exhibit good impact resistance and dimensional stability, even at low temperatures. The increasing demand for smart devices and greater internet penetration are also contributing to the growth of the market. These factors collectively drive the global expansion of phenolic resin-based PCBs, underlining their significance in modern electronics manufacturing.

COMPETITIVE INSIGHTS

Some of the leading players in the South Korea printed circuit board market include ISU Petasys, Nippon Mektron Ltd, Samsung Electronics Inc, etc.

Samsung Electronics Inc, established in 1938 and headquartered in Suwon, South Korea, operates globally across information technology, consumer electronics, and mobile communications. The company offers a wide range of products, including monitors, digital TVs, printers, mobile phones, smartphones, wearables, tablets, and computers. It also engages in business technology, venture capital investments, semiconductor manufacturing, and electronic device repairs. Samsung manufactures and sells home appliances such as refrigerators and air conditioners, provides logistics, credit management, medical equipment, and consulting services, and offers communication, mobile payment, and cloud services.

Table of Contents:

TABLE OF CONTENTS

- 1. RESEARCH SCOPE & METHODOLOGY
 - 1.1. STUDY OBJECTIVES
 - 1.2. METHODOLOGY
 - 1.3. ASSUMPTIONS & LIMITATIONS
- 2. EXECUTIVE SUMMARY
 - 2.1. MARKET SIZE & ESTIMATES
 - 2.2. COUNTRY SNAPSHOT
 - 2.3. COUNTRY ANALYSIS
 - 2.4. SCOPE OF STUDY
 - 2.5. CRISIS SCENARIO ANALYSIS
 - 2.6. MAJOR MARKET FINDINGS

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 2.6.1. AUGMENTED DEMAND OF ECO-FRIENDLY PRINTED CIRCUIT BOARDS
- 2.6.2. INCREASING ADOPTION OF INDUSTRIAL AUTOMATION AND CONTROL SYSTEMS
- 3. MARKET DYNAMICS
 - 3.1. KEY DRIVERS
 - 3.1.1. RISING DEMAND FOR SMART ELECTRONICS
 - 3.1.2. GROWING APPLICATIONS OF SEMICONDUCTORS
 - 3.1.3. RISING USE OF ELECTRONICS IN DIVERSE APPLICATIONS
 - 3.1.4. EXPLOSIVE RISE IN INTERNET USAGE
 - 3.2. KEY RESTRAINTS
 - 3.2.1. HIGH COMPETITION LEADS TO FALLING PRICES
 - 3.2.2. VOLATILITY IN RAW MATERIAL PRICING
 - 3.2.3. REGULATIONS ON E-WASTE
- 4. KEY ANALYTICS
 - 4.1. KEY MARKET TRENDS
 - 4.1.1. GROWING ADOPTION OF FLEXIBLE PRINTED CIRCUIT BOARDS
 - 4.1.2. ADVANCEMENTS IN IOT AND AI INTEGRATION IN PCB DESIGN
 - 4.1.3. EMERGENCE OF 3D PRINTED PCBS TO REVOLUTIONIZE MANUFACTURING
 - 4.2. PESTLE ANALYSIS
 - 4.2.1. POLITICAL
 - 4.2.2. ECONOMICAL
 - 4.2.3. SOCIAL
 - 4.2.4. TECHNOLOGICAL
 - 4.2.5. LEGAL
 - 4.2.6. ENVIRONMENTAL
 - 4.3. PORTER'S FIVE FORCES ANALYSIS
 - 4.3.1. BUYERS POWER
 - 4.3.2. SUPPLIERS POWER
 - 4.3.3. SUBSTITUTIONS
 - 4.3.4. NEW ENTRANTS
 - 4.3.5. INDUSTRY RIVALRY
 - 4.4. GROWTH PROSPECT MAPPING
 - 4.5. MARKET MATURITY ANALYSIS
 - 4.6. MARKET CONCENTRATION ANALYSIS
 - 4.7. VALUE CHAIN ANALYSIS
 - 4.7.1. RESIN & FIBER SUPPLIERS
 - 4.7.2. LAMINATORS & MANUFACTURERS
 - 4.7.3. DISTRIBUTORS AND RETAILERS
 - 4.7.4. END-USERS
 - 4.8. KEY BUYING CRITERIA
 - 4.8.1. APPLICATION
 - 4.8.2. RELIABILITY
 - 4.8.3. COST
- 5. MARKET BY RAW MATERIAL
 - 5.1. EPOXY RESIN
 - 5.1.1. MARKET FORECAST FIGURE
 - 5.1.2. SEGMENT ANALYSIS
 - 5.2. GLASS FABRIC

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 5.2.1. MARKET FORECAST FIGURE
- 5.2.2. SEGMENT ANALYSIS
- 5.3. PHENOLIC RESIN
 - 5.3.1. MARKET FORECAST FIGURE
 - 5.3.2. SEGMENT ANALYSIS
- 5.4. KRAFT PAPER
 - 5.4.1. MARKET FORECAST FIGURE
 - 5.4.2. SEGMENT ANALYSIS
- 5.5. OTHER RAW MATERIALS
 - 5.5.1. MARKET FORECAST FIGURE
 - 5.5.2. SEGMENT ANALYSIS
- 6. MARKET BY SUBSTRATE
 - 6.1. STANDARD MULTILAYER
 - 6.1.1. MARKET FORECAST FIGURE
 - 6.1.2. SEGMENT ANALYSIS
 - 6.2. FLEXIBLE CIRCUITS
 - 6.2.1. MARKET FORECAST FIGURE
 - 6.2.2. SEGMENT ANALYSIS
 - 6.3. HIGH-DENSITY INTERCONNECT (HDI)
 - 6.3.1. MARKET FORECAST FIGURE
 - 6.3.2. SEGMENT ANALYSIS
 - 6.4. INTEGRATED CIRCUITS (ICS)
 - 6.4.1. MARKET FORECAST FIGURE
 - 6.4.2. SEGMENT ANALYSIS
 - 6.5. RIGID 1-2 SIDED
 - 6.5.1. MARKET FORECAST FIGURE
 - 6.5.2. SEGMENT ANALYSIS
 - 6.6. RIGID FLEX
 - 6.6.1. MARKET FORECAST FIGURE
 - 6.6.2. SEGMENT ANALYSIS
- 7. MARKET BY APPLICATION
 - 7.1. COMMUNICATIONS
 - 7.1.1. MARKET FORECAST FIGURE
 - 7.1.2. SEGMENT ANALYSIS
 - 7.2. CONSUMER ELECTRONICS
 - 7.2.1. MARKET FORECAST FIGURE
 - 7.2.2. SEGMENT ANALYSIS
 - 7.3. INDUSTRIAL ELECTRONICS
 - 7.3.1. MARKET FORECAST FIGURE
 - 7.3.2. SEGMENT ANALYSIS
 - 7.4. AUTOMOTIVE
 - 7.4.1. MARKET FORECAST FIGURE
 - 7.4.2. SEGMENT ANALYSIS
 - 7.5. MILITARY
 - 7.5.1. MARKET FORECAST FIGURE
 - 7.5.2. SEGMENT ANALYSIS
 - 7.6. OTHER APPLICATIONS

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 7.6.1. MARKET FORECAST FIGURE
- 7.6.2. SEGMENT ANALYSIS
- 8. COMPETITIVE LANDSCAPE
 - 8.1. KEY STRATEGIC DEVELOPMENTS
 - 8.1.1. MERGERS & ACQUISITIONS
 - 8.1.2. PARTNERSHIPS & AGREEMENTS
 - 8.1.3. BUSINESS EXPANSIONS & DIVESTITURES
 - 8.2. COMPANY PROFILES
 - 8.2.1. AT&S (AUSTRIA TECHNOLOGIE & SYSTEMTECHNIK AKTIENGESELLSCHAFT)
 - 8.2.1.1. COMPANY OVERVIEW
 - 8.2.1.2. PRODUCTS
 - 8.2.1.3. STRENGTHS & CHALLENGES
 - 8.2.2. DAEDUCK ELECTRONICS
 - 8.2.2.1. COMPANY OVERVIEW
 - 8.2.2.2. PRODUCTS
 - 8.2.2.3. STRENGTHS & CHALLENGES
 - 8.2.3. ISU PETASYS
 - 8.2.3.1. COMPANY OVERVIEW
 - 8.2.3.2. PRODUCTS
 - 8.2.3.3. STRENGTHS & CHALLENGES
 - 8.2.4. NIPPON MEKTRON LTD
 - 8.2.4.1. COMPANY OVERVIEW
 - 8.2.4.2. PRODUCTS
 - 8.2.4.3. STRENGTHS & CHALLENGES
 - 8.2.5. SAMSUNG ELECTRONICS INC
 - 8.2.5.1. COMPANY OVERVIEW
 - 8.2.5.2. PRODUCTS
 - 8.2.5.3. STRENGTHS & CHALLENGES

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

South Korea Printed Circuit Board Market Forecast 2024-2032

Market Report | 2024-08-12 | 140 pages | Inkwood Research

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User Price	\$1100.00
	Global Site License	\$1500.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2025-06-26"/>
		Signature	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com