

Global Quad Flat No-leads (QFN) Package Market Growth 2025-2031

<https://marketpublishers.com/r/GFD3CFA053C7EN.html>

Date: November 2025

Pages: 120

Price: US\$ 3,660.00 (Single User License)

ID: GFD3CFA053C7EN

Abstracts

The global Quad Flat No-leads (QFN) Package market size is predicted to grow from US\$ 1473 million in 2025 to US\$ 1869 million in 2031; it is expected to grow at a CAGR of 4.0% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Quad Flat No-Lead (QFN) is a surface-mount integrated circuit (IC) package designed to offer superior electrical and thermal performance while maintaining a compact form factor. It is a leadframe-based package where the leads do not extend beyond the package body, making it ideal for applications requiring high-density board assembly and improved thermal dissipation.

Market Drivers

Miniaturization of Electronic Devices: The ever - growing demand for smaller, lighter, and more portable electronic devices such as smartphones, tablets, and wearables is a major driver for the QFN package market. QFN packages' small form factor and low - profile design enable manufacturers to fit more components into a limited space, meeting the strict size and weight requirements of modern consumer electronics.

Increasing Demand in the Automotive Industry: With the advancement of automotive electronics, including electric vehicle (EV) battery management systems, advanced driver - assistance systems (ADAS), and in - vehicle infotainment systems, there is a rising need for reliable and high - performance semiconductor packages. QFN

packages offer excellent thermal management and electrical performance, making them suitable for automotive applications where reliability and stability are crucial.

Growth of 5G and IoT Technologies: The rapid development of 5G communication and the Internet of Things (IoT) is fueling the demand for QFN packages. These technologies require high - frequency, high - speed signal processing, and QFN packages' low - inductance and low - resistance characteristics can effectively reduce signal interference and loss, ensuring stable and efficient data transmission.

Market Challenges

Intense Competition from Alternative Packages: The QFN package market faces fierce competition from other semiconductor packaging technologies such as Wafer - Level Chip - Scale Packages (WLCSP) and Ball Grid Arrays (BGA). These alternative packages also offer miniaturization and high - performance features, and in some cases, may have cost - advantages or better - suited characteristics for specific applications, posing a threat to the market share of QFN packages.

Complex Manufacturing Processes: The manufacturing of QFN packages involves complex processes, including lead - frame processing, wire bonding, and molding. Any deviation in these processes can lead to quality issues, such as voids in the mold compound or poor wire - bond reliability. Ensuring consistent quality control throughout the manufacturing process is a challenge for manufacturers, which can increase production costs and affect market competitiveness.

Fluctuating Raw Material Prices: The prices of raw materials used in QFN package manufacturing, such as copper, gold, and epoxy molding compounds, are subject to significant fluctuations due to global supply - demand imbalances, geopolitical factors, and currency exchange rate variations. These price fluctuations can disrupt production schedules and squeeze profit margins, making it difficult for manufacturers to accurately price their products and plan their operations.

LP Information, Inc. (LPI) ' newest research report, the “Quad Flat No-leads (QFN) Package Industry Forecast” looks at past sales and reviews total world Quad Flat No-leads (QFN) Package sales in 2024, providing a comprehensive analysis by region and market sector of projected Quad Flat No-leads (QFN) Package sales for 2025 through 2031. With Quad Flat No-leads (QFN) Package sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the

world Quad Flat No-leads (QFN) Package industry.

This Insight Report provides a comprehensive analysis of the global Quad Flat No-leads (QFN) Package landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Quad Flat No-leads (QFN) Package portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Quad Flat No-leads (QFN) Package market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Quad Flat No-leads (QFN) Package and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Quad Flat No-leads (QFN) Package.

This report presents a comprehensive overview, market shares, and growth opportunities of Quad Flat No-leads (QFN) Package market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Small Size Package

Large Size Package

Segmentation by Application:

Automotive

Mobile & Consumer Devices

Client & Edge Computing

Enterprise & Cloud Infrastructure

Telecom & Networking

Industrial & Automation

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

ASE(SPIL)

Amkor Technology

JCET Group

Powertech Technology Inc.

Tongfu Microelectronics

Tianshui Huatian Technology

UTAC

Orient Semiconductor

Forehope Electronic

ChipMOS

King Yuan Electronics

SFA Semicon

Key Questions Addressed in this Report

What is the 10-year outlook for the global Quad Flat No-leads (QFN) Package market?

What factors are driving Quad Flat No-leads (QFN) Package market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Quad Flat No-leads (QFN) Package market opportunities vary by end market size?

How does Quad Flat No-leads (QFN) Package break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Quad Flat No-leads (QFN) Package Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for Quad Flat No-leads (QFN) Package by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for Quad Flat No-leads (QFN) Package by Country/Region, 2020, 2024 & 2031
- 2.2 Quad Flat No-leads (QFN) Package Segment by Type
 - 2.2.1 Small Size Package
 - 2.2.2 Large Size Package
- 2.3 Quad Flat No-leads (QFN) Package Sales by Type
 - 2.3.1 Global Quad Flat No-leads (QFN) Package Sales Market Share by Type (2020-2025)
 - 2.3.2 Global Quad Flat No-leads (QFN) Package Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global Quad Flat No-leads (QFN) Package Sale Price by Type (2020-2025)
- 2.4 Quad Flat No-leads (QFN) Package Segment by Application
 - 2.4.1 Automotive
 - 2.4.2 Mobile & Consumer Devices
 - 2.4.3 Client & Edge Computing
 - 2.4.4 Enterprise & Cloud Infrastructure
 - 2.4.5 Telecom & Networking
 - 2.4.6 Industrial & Automation
 - 2.4.7 Others
- 2.5 Quad Flat No-leads (QFN) Package Sales by Application

2.5.1 Global Quad Flat No-leads (QFN) Package Sale Market Share by Application (2020-2025)

2.5.2 Global Quad Flat No-leads (QFN) Package Revenue and Market Share by Application (2020-2025)

2.5.3 Global Quad Flat No-leads (QFN) Package Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Quad Flat No-leads (QFN) Package Breakdown Data by Company

3.1.1 Global Quad Flat No-leads (QFN) Package Annual Sales by Company (2020-2025)

3.1.2 Global Quad Flat No-leads (QFN) Package Sales Market Share by Company (2020-2025)

3.2 Global Quad Flat No-leads (QFN) Package Annual Revenue by Company (2020-2025)

3.2.1 Global Quad Flat No-leads (QFN) Package Revenue by Company (2020-2025)

3.2.2 Global Quad Flat No-leads (QFN) Package Revenue Market Share by Company (2020-2025)

3.3 Global Quad Flat No-leads (QFN) Package Sale Price by Company

3.4 Key Manufacturers Quad Flat No-leads (QFN) Package Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Quad Flat No-leads (QFN) Package Product Location Distribution

3.4.2 Players Quad Flat No-leads (QFN) Package Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR QUAD FLAT NO-LEADS (QFN) PACKAGE BY GEOGRAPHIC REGION

4.1 World Historic Quad Flat No-leads (QFN) Package Market Size by Geographic Region (2020-2025)

4.1.1 Global Quad Flat No-leads (QFN) Package Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Quad Flat No-leads (QFN) Package Annual Revenue by Geographic

Region (2020-2025)

4.2 World Historic Quad Flat No-leads (QFN) Package Market Size by Country/Region (2020-2025)

4.2.1 Global Quad Flat No-leads (QFN) Package Annual Sales by Country/Region (2020-2025)

4.2.2 Global Quad Flat No-leads (QFN) Package Annual Revenue by Country/Region (2020-2025)

4.3 Americas Quad Flat No-leads (QFN) Package Sales Growth

4.4 APAC Quad Flat No-leads (QFN) Package Sales Growth

4.5 Europe Quad Flat No-leads (QFN) Package Sales Growth

4.6 Middle East & Africa Quad Flat No-leads (QFN) Package Sales Growth

5 AMERICAS

5.1 Americas Quad Flat No-leads (QFN) Package Sales by Country

5.1.1 Americas Quad Flat No-leads (QFN) Package Sales by Country (2020-2025)

5.1.2 Americas Quad Flat No-leads (QFN) Package Revenue by Country (2020-2025)

5.2 Americas Quad Flat No-leads (QFN) Package Sales by Type (2020-2025)

5.3 Americas Quad Flat No-leads (QFN) Package Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Quad Flat No-leads (QFN) Package Sales by Region

6.1.1 APAC Quad Flat No-leads (QFN) Package Sales by Region (2020-2025)

6.1.2 APAC Quad Flat No-leads (QFN) Package Revenue by Region (2020-2025)

6.2 APAC Quad Flat No-leads (QFN) Package Sales by Type (2020-2025)

6.3 APAC Quad Flat No-leads (QFN) Package Sales by Application (2020-2025)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Quad Flat No-leads (QFN) Package by Country

7.1.1 Europe Quad Flat No-leads (QFN) Package Sales by Country (2020-2025)

7.1.2 Europe Quad Flat No-leads (QFN) Package Revenue by Country (2020-2025)

7.2 Europe Quad Flat No-leads (QFN) Package Sales by Type (2020-2025)

7.3 Europe Quad Flat No-leads (QFN) Package Sales by Application (2020-2025)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Quad Flat No-leads (QFN) Package by Country

8.1.1 Middle East & Africa Quad Flat No-leads (QFN) Package Sales by Country (2020-2025)

8.1.2 Middle East & Africa Quad Flat No-leads (QFN) Package Revenue by Country (2020-2025)

8.2 Middle East & Africa Quad Flat No-leads (QFN) Package Sales by Type (2020-2025)

8.3 Middle East & Africa Quad Flat No-leads (QFN) Package Sales by Application (2020-2025)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

- 10.2 Manufacturing Cost Structure Analysis of Quad Flat No-leads (QFN) Package
- 10.3 Manufacturing Process Analysis of Quad Flat No-leads (QFN) Package
- 10.4 Industry Chain Structure of Quad Flat No-leads (QFN) Package

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Quad Flat No-leads (QFN) Package Distributors
- 11.3 Quad Flat No-leads (QFN) Package Customer

12 WORLD FORECAST REVIEW FOR QUAD FLAT NO-LEADS (QFN) PACKAGE BY GEOGRAPHIC REGION

- 12.1 Global Quad Flat No-leads (QFN) Package Market Size Forecast by Region
 - 12.1.1 Global Quad Flat No-leads (QFN) Package Forecast by Region (2026-2031)
 - 12.1.2 Global Quad Flat No-leads (QFN) Package Annual Revenue Forecast by Region (2026-2031)
- 12.2 Americas Forecast by Country (2026-2031)
- 12.3 APAC Forecast by Region (2026-2031)
- 12.4 Europe Forecast by Country (2026-2031)
- 12.5 Middle East & Africa Forecast by Country (2026-2031)
- 12.6 Global Quad Flat No-leads (QFN) Package Forecast by Type (2026-2031)
- 12.7 Global Quad Flat No-leads (QFN) Package Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

- 13.1 ASE(SPIL)
 - 13.1.1 ASE(SPIL) Company Information
 - 13.1.2 ASE(SPIL) Quad Flat No-leads (QFN) Package Product Portfolios and Specifications
 - 13.1.3 ASE(SPIL) Quad Flat No-leads (QFN) Package Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.1.4 ASE(SPIL) Main Business Overview
 - 13.1.5 ASE(SPIL) Latest Developments
- 13.2 Amkor Technology
 - 13.2.1 Amkor Technology Company Information
 - 13.2.2 Amkor Technology Quad Flat No-leads (QFN) Package Product Portfolios and

Specifications

13.2.3 Amkor Technology Quad Flat No-leads (QFN) Package Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Amkor Technology Main Business Overview

13.2.5 Amkor Technology Latest Developments

13.3 JCET Group

13.3.1 JCET Group Company Information

13.3.2 JCET Group Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

13.3.3 JCET Group Quad Flat No-leads (QFN) Package Sales, Revenue, Price and Gross Margin (2020-2025)

13.3.4 JCET Group Main Business Overview

13.3.5 JCET Group Latest Developments

13.4 Powertech Technology Inc.

13.4.1 Powertech Technology Inc. Company Information

13.4.2 Powertech Technology Inc. Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

13.4.3 Powertech Technology Inc. Quad Flat No-leads (QFN) Package Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 Powertech Technology Inc. Main Business Overview

13.4.5 Powertech Technology Inc. Latest Developments

13.5 Tongfu Microelectronics

13.5.1 Tongfu Microelectronics Company Information

13.5.2 Tongfu Microelectronics Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

13.5.3 Tongfu Microelectronics Quad Flat No-leads (QFN) Package Sales, Revenue, Price and Gross Margin (2020-2025)

13.5.4 Tongfu Microelectronics Main Business Overview

13.5.5 Tongfu Microelectronics Latest Developments

13.6 Tianshui Huatian Technology

13.6.1 Tianshui Huatian Technology Company Information

13.6.2 Tianshui Huatian Technology Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

13.6.3 Tianshui Huatian Technology Quad Flat No-leads (QFN) Package Sales, Revenue, Price and Gross Margin (2020-2025)

13.6.4 Tianshui Huatian Technology Main Business Overview

13.6.5 Tianshui Huatian Technology Latest Developments

13.7 UTAC

13.7.1 UTAC Company Information

13.7.2 UTAC Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

13.7.3 UTAC Quad Flat No-leads (QFN) Package Sales, Revenue, Price and Gross Margin (2020-2025)

13.7.4 UTAC Main Business Overview

13.7.5 UTAC Latest Developments

13.8 Orient Semiconductor

13.8.1 Orient Semiconductor Company Information

13.8.2 Orient Semiconductor Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

13.8.3 Orient Semiconductor Quad Flat No-leads (QFN) Package Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 Orient Semiconductor Main Business Overview

13.8.5 Orient Semiconductor Latest Developments

13.9 Forehope Electronic

13.9.1 Forehope Electronic Company Information

13.9.2 Forehope Electronic Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

13.9.3 Forehope Electronic Quad Flat No-leads (QFN) Package Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 Forehope Electronic Main Business Overview

13.9.5 Forehope Electronic Latest Developments

13.10 ChipMOS

13.10.1 ChipMOS Company Information

13.10.2 ChipMOS Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

13.10.3 ChipMOS Quad Flat No-leads (QFN) Package Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 ChipMOS Main Business Overview

13.10.5 ChipMOS Latest Developments

13.11 King Yuan Electronics

13.11.1 King Yuan Electronics Company Information

13.11.2 King Yuan Electronics Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

13.11.3 King Yuan Electronics Quad Flat No-leads (QFN) Package Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 King Yuan Electronics Main Business Overview

13.11.5 King Yuan Electronics Latest Developments

13.12 SFA Semicon

13.12.1 SFA Semicon Company Information

13.12.2 SFA Semicon Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

13.12.3 SFA Semicon Quad Flat No-leads (QFN) Package Sales, Revenue, Price and Gross Margin (2020-2025)

13.12.4 SFA Semicon Main Business Overview

13.12.5 SFA Semicon Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Quad Flat No-leads (QFN) Package Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. Quad Flat No-leads (QFN) Package Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Small Size Package

Table 4. Major Players of Large Size Package

Table 5. Global Quad Flat No-leads (QFN) Package Sales by Type (2020-2025) & (KK PCS)

Table 6. Global Quad Flat No-leads (QFN) Package Sales Market Share by Type (2020-2025)

Table 7. Global Quad Flat No-leads (QFN) Package Revenue by Type (2020-2025) & (\$ million)

Table 8. Global Quad Flat No-leads (QFN) Package Revenue Market Share by Type (2020-2025)

Table 9. Global Quad Flat No-leads (QFN) Package Sale Price by Type (2020-2025) & (US\$/K PCS)

Table 10. Global Quad Flat No-leads (QFN) Package Sale by Application (2020-2025) & (KK PCS)

Table 11. Global Quad Flat No-leads (QFN) Package Sale Market Share by Application (2020-2025)

Table 12. Global Quad Flat No-leads (QFN) Package Revenue by Application (2020-2025) & (\$ million)

Table 13. Global Quad Flat No-leads (QFN) Package Revenue Market Share by Application (2020-2025)

Table 14. Global Quad Flat No-leads (QFN) Package Sale Price by Application (2020-2025) & (US\$/K PCS)

Table 15. Global Quad Flat No-leads (QFN) Package Sales by Company (2020-2025) & (KK PCS)

Table 16. Global Quad Flat No-leads (QFN) Package Sales Market Share by Company (2020-2025)

Table 17. Global Quad Flat No-leads (QFN) Package Revenue by Company (2020-2025) & (\$ millions)

Table 18. Global Quad Flat No-leads (QFN) Package Revenue Market Share by Company (2020-2025)

Table 19. Global Quad Flat No-leads (QFN) Package Sale Price by Company

(2020-2025) & (US\$/K PCS)

Table 20. Key Manufacturers Quad Flat No-leads (QFN) Package Producing Area Distribution and Sales Area

Table 21. Players Quad Flat No-leads (QFN) Package Products Offered

Table 22. Quad Flat No-leads (QFN) Package Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global Quad Flat No-leads (QFN) Package Sales by Geographic Region (2020-2025) & (KK PCS)

Table 26. Global Quad Flat No-leads (QFN) Package Sales Market Share Geographic Region (2020-2025)

Table 27. Global Quad Flat No-leads (QFN) Package Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 28. Global Quad Flat No-leads (QFN) Package Revenue Market Share by Geographic Region (2020-2025)

Table 29. Global Quad Flat No-leads (QFN) Package Sales by Country/Region (2020-2025) & (KK PCS)

Table 30. Global Quad Flat No-leads (QFN) Package Sales Market Share by Country/Region (2020-2025)

Table 31. Global Quad Flat No-leads (QFN) Package Revenue by Country/Region (2020-2025) & (\$ millions)

Table 32. Global Quad Flat No-leads (QFN) Package Revenue Market Share by Country/Region (2020-2025)

Table 33. Americas Quad Flat No-leads (QFN) Package Sales by Country (2020-2025) & (KK PCS)

Table 34. Americas Quad Flat No-leads (QFN) Package Sales Market Share by Country (2020-2025)

Table 35. Americas Quad Flat No-leads (QFN) Package Revenue by Country (2020-2025) & (\$ millions)

Table 36. Americas Quad Flat No-leads (QFN) Package Sales by Type (2020-2025) & (KK PCS)

Table 37. Americas Quad Flat No-leads (QFN) Package Sales by Application (2020-2025) & (KK PCS)

Table 38. APAC Quad Flat No-leads (QFN) Package Sales by Region (2020-2025) & (KK PCS)

Table 39. APAC Quad Flat No-leads (QFN) Package Sales Market Share by Region (2020-2025)

Table 40. APAC Quad Flat No-leads (QFN) Package Revenue by Region (2020-2025)

& (\$ millions)

Table 41. APAC Quad Flat No-leads (QFN) Package Sales by Type (2020-2025) & (KK PCS)

Table 42. APAC Quad Flat No-leads (QFN) Package Sales by Application (2020-2025) & (KK PCS)

Table 43. Europe Quad Flat No-leads (QFN) Package Sales by Country (2020-2025) & (KK PCS)

Table 44. Europe Quad Flat No-leads (QFN) Package Revenue by Country (2020-2025) & (\$ millions)

Table 45. Europe Quad Flat No-leads (QFN) Package Sales by Type (2020-2025) & (KK PCS)

Table 46. Europe Quad Flat No-leads (QFN) Package Sales by Application (2020-2025) & (KK PCS)

Table 47. Middle East & Africa Quad Flat No-leads (QFN) Package Sales by Country (2020-2025) & (KK PCS)

Table 48. Middle East & Africa Quad Flat No-leads (QFN) Package Revenue Market Share by Country (2020-2025)

Table 49. Middle East & Africa Quad Flat No-leads (QFN) Package Sales by Type (2020-2025) & (KK PCS)

Table 50. Middle East & Africa Quad Flat No-leads (QFN) Package Sales by Application (2020-2025) & (KK PCS)

Table 51. Key Market Drivers & Growth Opportunities of Quad Flat No-leads (QFN) Package

Table 52. Key Market Challenges & Risks of Quad Flat No-leads (QFN) Package

Table 53. Key Industry Trends of Quad Flat No-leads (QFN) Package

Table 54. Quad Flat No-leads (QFN) Package Raw Material

Table 55. Key Suppliers of Raw Materials

Table 56. Quad Flat No-leads (QFN) Package Distributors List

Table 57. Quad Flat No-leads (QFN) Package Customer List

Table 58. Global Quad Flat No-leads (QFN) Package Sales Forecast by Region (2026-2031) & (KK PCS)

Table 59. Global Quad Flat No-leads (QFN) Package Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 60. Americas Quad Flat No-leads (QFN) Package Sales Forecast by Country (2026-2031) & (KK PCS)

Table 61. Americas Quad Flat No-leads (QFN) Package Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 62. APAC Quad Flat No-leads (QFN) Package Sales Forecast by Region (2026-2031) & (KK PCS)

Table 63. APAC Quad Flat No-leads (QFN) Package Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 64. Europe Quad Flat No-leads (QFN) Package Sales Forecast by Country (2026-2031) & (KK PCS)

Table 65. Europe Quad Flat No-leads (QFN) Package Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 66. Middle East & Africa Quad Flat No-leads (QFN) Package Sales Forecast by Country (2026-2031) & (KK PCS)

Table 67. Middle East & Africa Quad Flat No-leads (QFN) Package Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 68. Global Quad Flat No-leads (QFN) Package Sales Forecast by Type (2026-2031) & (KK PCS)

Table 69. Global Quad Flat No-leads (QFN) Package Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 70. Global Quad Flat No-leads (QFN) Package Sales Forecast by Application (2026-2031) & (KK PCS)

Table 71. Global Quad Flat No-leads (QFN) Package Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 72. ASE(SPIL) Basic Information, Quad Flat No-leads (QFN) Package Manufacturing Base, Sales Area and Its Competitors

Table 73. ASE(SPIL) Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

Table 74. ASE(SPIL) Quad Flat No-leads (QFN) Package Sales (KK PCS), Revenue (\$ Million), Price (US\$/K PCS) and Gross Margin (2020-2025)

Table 75. ASE(SPIL) Main Business

Table 76. ASE(SPIL) Latest Developments

Table 77. Amkor Technology Basic Information, Quad Flat No-leads (QFN) Package Manufacturing Base, Sales Area and Its Competitors

Table 78. Amkor Technology Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

Table 79. Amkor Technology Quad Flat No-leads (QFN) Package Sales (KK PCS), Revenue (\$ Million), Price (US\$/K PCS) and Gross Margin (2020-2025)

Table 80. Amkor Technology Main Business

Table 81. Amkor Technology Latest Developments

Table 82. JCET Group Basic Information, Quad Flat No-leads (QFN) Package Manufacturing Base, Sales Area and Its Competitors

Table 83. JCET Group Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

Table 84. JCET Group Quad Flat No-leads (QFN) Package Sales (KK PCS), Revenue

(\$ Million), Price (US\$/K PCS) and Gross Margin (2020-2025)

Table 85. JCET Group Main Business

Table 86. JCET Group Latest Developments

Table 87. Powertech Technology Inc. Basic Information, Quad Flat No-leads (QFN) Package Manufacturing Base, Sales Area and Its Competitors

Table 88. Powertech Technology Inc. Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

Table 89. Powertech Technology Inc. Quad Flat No-leads (QFN) Package Sales (KK PCS), Revenue (\$ Million), Price (US\$/K PCS) and Gross Margin (2020-2025)

Table 90. Powertech Technology Inc. Main Business

Table 91. Powertech Technology Inc. Latest Developments

Table 92. Tongfu Microelectronics Basic Information, Quad Flat No-leads (QFN) Package Manufacturing Base, Sales Area and Its Competitors

Table 93. Tongfu Microelectronics Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

Table 94. Tongfu Microelectronics Quad Flat No-leads (QFN) Package Sales (KK PCS), Revenue (\$ Million), Price (US\$/K PCS) and Gross Margin (2020-2025)

Table 95. Tongfu Microelectronics Main Business

Table 96. Tongfu Microelectronics Latest Developments

Table 97. Tianshui Huatian Technology Basic Information, Quad Flat No-leads (QFN) Package Manufacturing Base, Sales Area and Its Competitors

Table 98. Tianshui Huatian Technology Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

Table 99. Tianshui Huatian Technology Quad Flat No-leads (QFN) Package Sales (KK PCS), Revenue (\$ Million), Price (US\$/K PCS) and Gross Margin (2020-2025)

Table 100. Tianshui Huatian Technology Main Business

Table 101. Tianshui Huatian Technology Latest Developments

Table 102. UTAC Basic Information, Quad Flat No-leads (QFN) Package Manufacturing Base, Sales Area and Its Competitors

Table 103. UTAC Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

Table 104. UTAC Quad Flat No-leads (QFN) Package Sales (KK PCS), Revenue (\$ Million), Price (US\$/K PCS) and Gross Margin (2020-2025)

Table 105. UTAC Main Business

Table 106. UTAC Latest Developments

Table 107. Orient Semiconductor Basic Information, Quad Flat No-leads (QFN) Package Manufacturing Base, Sales Area and Its Competitors

Table 108. Orient Semiconductor Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

Table 109. Orient Semiconductor Quad Flat No-leads (QFN) Package Sales (KK PCS), Revenue (\$ Million), Price (US\$/K PCS) and Gross Margin (2020-2025)

Table 110. Orient Semiconductor Main Business

Table 111. Orient Semiconductor Latest Developments

Table 112. Forehope Electronic Basic Information, Quad Flat No-leads (QFN) Package Manufacturing Base, Sales Area and Its Competitors

Table 113. Forehope Electronic Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

Table 114. Forehope Electronic Quad Flat No-leads (QFN) Package Sales (KK PCS), Revenue (\$ Million), Price (US\$/K PCS) and Gross Margin (2020-2025)

Table 115. Forehope Electronic Main Business

Table 116. Forehope Electronic Latest Developments

Table 117. ChipMOS Basic Information, Quad Flat No-leads (QFN) Package Manufacturing Base, Sales Area and Its Competitors

Table 118. ChipMOS Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

Table 119. ChipMOS Quad Flat No-leads (QFN) Package Sales (KK PCS), Revenue (\$ Million), Price (US\$/K PCS) and Gross Margin (2020-2025)

Table 120. ChipMOS Main Business

Table 121. ChipMOS Latest Developments

Table 122. King Yuan Electronics Basic Information, Quad Flat No-leads (QFN) Package Manufacturing Base, Sales Area and Its Competitors

Table 123. King Yuan Electronics Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

Table 124. King Yuan Electronics Quad Flat No-leads (QFN) Package Sales (KK PCS), Revenue (\$ Million), Price (US\$/K PCS) and Gross Margin (2020-2025)

Table 125. King Yuan Electronics Main Business

Table 126. King Yuan Electronics Latest Developments

Table 127. SFA Semicon Basic Information, Quad Flat No-leads (QFN) Package Manufacturing Base, Sales Area and Its Competitors

Table 128. SFA Semicon Quad Flat No-leads (QFN) Package Product Portfolios and Specifications

Table 129. SFA Semicon Quad Flat No-leads (QFN) Package Sales (KK PCS), Revenue (\$ Million), Price (US\$/K PCS) and Gross Margin (2020-2025)

Table 130. SFA Semicon Main Business

Table 131. SFA Semicon Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Quad Flat No-leads (QFN) Package
- Figure 2. Quad Flat No-leads (QFN) Package Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Quad Flat No-leads (QFN) Package Sales Growth Rate 2020-2031 (KK PCS)
- Figure 7. Global Quad Flat No-leads (QFN) Package Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Quad Flat No-leads (QFN) Package Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Quad Flat No-leads (QFN) Package Sales Market Share by Country/Region (2024)
- Figure 10. Quad Flat No-leads (QFN) Package Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Small Size Package
- Figure 12. Product Picture of Large Size Package
- Figure 13. Global Quad Flat No-leads (QFN) Package Sales Market Share by Type in 2025
- Figure 14. Global Quad Flat No-leads (QFN) Package Revenue Market Share by Type (2020-2025)
- Figure 15. Quad Flat No-leads (QFN) Package Consumed in Automotive
- Figure 16. Global Quad Flat No-leads (QFN) Package Market: Automotive (2020-2025) & (KK PCS)
- Figure 17. Quad Flat No-leads (QFN) Package Consumed in Mobile & Consumer Devices
- Figure 18. Global Quad Flat No-leads (QFN) Package Market: Mobile & Consumer Devices (2020-2025) & (KK PCS)
- Figure 19. Quad Flat No-leads (QFN) Package Consumed in Client & Edge Computing
- Figure 20. Global Quad Flat No-leads (QFN) Package Market: Client & Edge Computing (2020-2025) & (KK PCS)
- Figure 21. Quad Flat No-leads (QFN) Package Consumed in Enterprise & Cloud Infrastructure
- Figure 22. Global Quad Flat No-leads (QFN) Package Market: Enterprise & Cloud Infrastructure (2020-2025) & (KK PCS)

Figure 23. Quad Flat No-leads (QFN) Package Consumed in Telecom & Networking

Figure 24. Global Quad Flat No-leads (QFN) Package Market: Telecom & Networking (2020-2025) & (KK PCS)

Figure 25. Quad Flat No-leads (QFN) Package Consumed in Industrial & Automation

Figure 26. Global Quad Flat No-leads (QFN) Package Market: Industrial & Automation (2020-2025) & (KK PCS)

Figure 27. Quad Flat No-leads (QFN) Package Consumed in Others

Figure 28. Global Quad Flat No-leads (QFN) Package Market: Others (2020-2025) & (KK PCS)

Figure 29. Global Quad Flat No-leads (QFN) Package Sale Market Share by Application (2024)

Figure 30. Global Quad Flat No-leads (QFN) Package Revenue Market Share by Application in 2025

Figure 31. Quad Flat No-leads (QFN) Package Sales by Company in 2025 (KK PCS)

Figure 32. Global Quad Flat No-leads (QFN) Package Sales Market Share by Company in 2025

Figure 33. Quad Flat No-leads (QFN) Package Revenue by Company in 2025 (\$ millions)

Figure 34. Global Quad Flat No-leads (QFN) Package Revenue Market Share by Company in 2025

Figure 35. Global Quad Flat No-leads (QFN) Package Sales Market Share by Geographic Region (2020-2025)

Figure 36. Global Quad Flat No-leads (QFN) Package Revenue Market Share by Geographic Region in 2025

Figure 37. Americas Quad Flat No-leads (QFN) Package Sales 2020-2025 (KK PCS)

Figure 38. Americas Quad Flat No-leads (QFN) Package Revenue 2020-2025 (\$ millions)

Figure 39. APAC Quad Flat No-leads (QFN) Package Sales 2020-2025 (KK PCS)

Figure 40. APAC Quad Flat No-leads (QFN) Package Revenue 2020-2025 (\$ millions)

Figure 41. Europe Quad Flat No-leads (QFN) Package Sales 2020-2025 (KK PCS)

Figure 42. Europe Quad Flat No-leads (QFN) Package Revenue 2020-2025 (\$ millions)

Figure 43. Middle East & Africa Quad Flat No-leads (QFN) Package Sales 2020-2025 (KK PCS)

Figure 44. Middle East & Africa Quad Flat No-leads (QFN) Package Revenue 2020-2025 (\$ millions)

Figure 45. Americas Quad Flat No-leads (QFN) Package Sales Market Share by Country in 2025

Figure 46. Americas Quad Flat No-leads (QFN) Package Revenue Market Share by Country (2020-2025)

Figure 47. Americas Quad Flat No-leads (QFN) Package Sales Market Share by Type (2020-2025)

Figure 48. Americas Quad Flat No-leads (QFN) Package Sales Market Share by Application (2020-2025)

Figure 49. United States Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 50. Canada Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 51. Mexico Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 52. Brazil Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 53. APAC Quad Flat No-leads (QFN) Package Sales Market Share by Region in 2025

Figure 54. APAC Quad Flat No-leads (QFN) Package Revenue Market Share by Region (2020-2025)

Figure 55. APAC Quad Flat No-leads (QFN) Package Sales Market Share by Type (2020-2025)

Figure 56. APAC Quad Flat No-leads (QFN) Package Sales Market Share by Application (2020-2025)

Figure 57. China Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 58. Japan Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 59. South Korea Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 60. Southeast Asia Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 61. India Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 62. Australia Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 63. China Taiwan Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 64. Europe Quad Flat No-leads (QFN) Package Sales Market Share by Country in 2025

Figure 65. Europe Quad Flat No-leads (QFN) Package Revenue Market Share by Country (2020-2025)

Figure 66. Europe Quad Flat No-leads (QFN) Package Sales Market Share by Type

(2020-2025)

Figure 67. Europe Quad Flat No-leads (QFN) Package Sales Market Share by Application (2020-2025)

Figure 68. Germany Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 69. France Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 70. UK Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 71. Italy Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 72. Russia Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 73. Middle East & Africa Quad Flat No-leads (QFN) Package Sales Market Share by Country (2020-2025)

Figure 74. Middle East & Africa Quad Flat No-leads (QFN) Package Sales Market Share by Type (2020-2025)

Figure 75. Middle East & Africa Quad Flat No-leads (QFN) Package Sales Market Share by Application (2020-2025)

Figure 76. Egypt Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 77. South Africa Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 78. Israel Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 79. Turkey Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 80. GCC Countries Quad Flat No-leads (QFN) Package Revenue Growth 2020-2025 (\$ millions)

Figure 81. Manufacturing Cost Structure Analysis of Quad Flat No-leads (QFN) Package in 2025

Figure 82. Manufacturing Process Analysis of Quad Flat No-leads (QFN) Package

Figure 83. Industry Chain Structure of Quad Flat No-leads (QFN) Package

Figure 84. Channels of Distribution

Figure 85. Global Quad Flat No-leads (QFN) Package Sales Market Forecast by Region (2026-2031)

Figure 86. Global Quad Flat No-leads (QFN) Package Revenue Market Share Forecast by Region (2026-2031)

Figure 87. Global Quad Flat No-leads (QFN) Package Sales Market Share Forecast by

Type (2026-2031)

Figure 88. Global Quad Flat No-leads (QFN) Package Revenue Market Share Forecast by Type (2026-2031)

Figure 89. Global Quad Flat No-leads (QFN) Package Sales Market Share Forecast by Application (2026-2031)

Figure 90. Global Quad Flat No-leads (QFN) Package Revenue Market Share Forecast by Application (2026-2031)

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