

Global Sub-GHz Transceiver Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Sub-GHz Transceiver market size is expected to reach \$ 2617 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032). Sub-GHz Transceiver refers to a wireless communication device or component operating below 1 GHz (typically 315 MHz, 433 MHz, 470 MHz, 868 MHz, and 915 MHz) that integrates radio-frequency transmitting and receiving functions to enable low-power, long-range, and high-penetration data communication for IoT, industrial, automotive, and smart infrastructure applications.

The Sub-GHz Transceiver industry chain starts upstream with semiconductor materials, RF silicon wafers, analog and mixed-signal IP, crystal oscillators, and passive RF components, moves midstream into chip design, RF front-end integration, firmware development, module packaging, testing, and regulatory certification, and extends downstream to IoT device manufacturers, smart meter producers, industrial automation system integrators, automotive electronics suppliers, telecom operators, and smart city solution providers, where Sub-GHz transceivers are embedded into sensors, meters, gateways, controllers, and connected devices used for long-range, low-power, and high-reliability wireless communication.

Ongoing and planned Sub-GHz Transceiver projects globally focus on expanding low-power IoT chip capacity, developing next-generation ultra-low-power transceiver ICs, integrating Sub-GHz radios into multi-protocol wireless SoCs, scaling LoRa and proprietary RF module production lines, establishing automotive-grade RF manufacturing facilities, upgrading RF testing and certification labs, building localized module assembly plants in Asia, and accelerating R&D programs targeting higher sensitivity, longer communication range, lower power consumption, and enhanced security features for smart grid, industrial IoT, and smart city deployments.

2025 Global Market Sales Volume: 856 million Units. Average Global Market Price: USD 1.8 per Unit. Market Average Gross Profit Margin: 38%.

The Sub-GHz Transceiver market has experienced steady and resilient growth driven by the rapid expansion of IoT, smart infrastructure, and industrial digitalization, with its core value proposition centered on long-range communication, low power consumption, and strong signal penetration. Market development is closely tied to smart metering rollouts, industrial automation upgrades, and smart city projects, which require reliable wireless connectivity in challenging environments. Asia-Pacific represents the largest production and consumption region, supported by strong electronics manufacturing ecosystems and large-scale smart grid and industrial IoT deployments, while North America and Europe lead in high-value industrial, utility, and automotive applications. Emerging markets in Southeast Asia, the Middle East, and Latin America are accelerating adoption due to infrastructure modernization and cost-effective wireless monitoring needs.

Market opportunities lie in ultra-low-power chip innovation, multi-protocol integration, automotive-grade transceivers, and localized RF module production, while risks include spectrum regulation fragmentation, pricing pressure from commoditization, and rapid technological substitution from alternative wireless standards. Key market trends include integration of Sub-GHz radios into wireless SoCs, growing demand for pre-certified modules, increased focus on security and encryption, and convergence with LPWAN ecosystems. Competitive characteristics show a combination of global semiconductor leaders controlling core IC technology and regional module suppliers competing on cost, customization, and speed-to-market, resulting in moderate concentration at the chip level and high fragmentation at the module and system integration levels.

This report studies the global Sub-GHz Transceiver production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Sub-GHz Transceiver and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Sub-GHz Transceiver that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Sub-GHz Transceiver total production and demand, 2021-2032, (K Units)

Global Sub-GHz Transceiver total production value, 2021-2032, (USD Million)

Global Sub-GHz Transceiver production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Sub-GHz Transceiver consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Sub-GHz Transceiver domestic production, consumption, key domestic manufacturers and share

Global Sub-GHz Transceiver production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Sub-GHz Transceiver production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Sub-GHz Transceiver production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Sub-GHz Transceiver market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Renesas, Semtech, Texas Instruments, Silicon Labs, STMicroelectronics, NXP, Analog Devices, Microchip Technology Inc, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Sub-GHz Transceiver market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Sub-GHz Transceiver Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Sub-GHz Transceiver Market, Segmentation by Type:

Sub-GHz Transceiver IC

Sub-GHz Transceiver Module

Others

Global Sub-GHz Transceiver Market, Segmentation by Communication Protocol:

LoRa/LoRaWAN Transceiver

Wireless M-Bus Transceiver

Others

Global Sub-GHz Transceiver Market, Segmentation by Frequency Band:

315 MHz Transceiver

433 MHz Transceiver

470 MHz Transceiver

Others

Global Sub-GHz Transceiver Market, Segmentation by Application:

Smart Home and Smart City

Smart Factory

Smart Grid

Automotive

Others

Companies Profiled:

Renesas

Semtech

Texas Instruments

Silicon Labs

STMicroelectronics

NXP

Analog Devices

Microchip Technology Inc

Key Questions Answered:

1. How big is the global Sub-GHz Transceiver market?
2. What is the demand of the global Sub-GHz Transceiver market?
3. What is the year over year growth of the global Sub-GHz Transceiver market?
4. What is the production and production value of the global Sub-GHz Transceiver market?
5. Who are the key producers in the global Sub-GHz Transceiver market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Sub-GHz Transceiver Introduction
- 1.2 World Sub-GHz Transceiver Supply & Forecast
 - 1.2.1 World Sub-GHz Transceiver Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Sub-GHz Transceiver Production (2021-2032)
 - 1.2.3 World Sub-GHz Transceiver Pricing Trends (2021-2032)
- 1.3 World Sub-GHz Transceiver Production by Region (Based on Production Site)
 - 1.3.1 World Sub-GHz Transceiver Production Value by Region (2021-2032)
 - 1.3.2 World Sub-GHz Transceiver Production by Region (2021-2032)
 - 1.3.3 World Sub-GHz Transceiver Average Price by Region (2021-2032)
 - 1.3.4 North America Sub-GHz Transceiver Production (2021-2032)
 - 1.3.5 Europe Sub-GHz Transceiver Production (2021-2032)
 - 1.3.6 Japan Sub-GHz Transceiver Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Sub-GHz Transceiver Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Sub-GHz Transceiver Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Sub-GHz Transceiver Demand (2021-2032)
- 2.2 World Sub-GHz Transceiver Consumption by Region
 - 2.2.1 World Sub-GHz Transceiver Consumption by Region (2021-2026)
 - 2.2.2 World Sub-GHz Transceiver Consumption Forecast by Region (2027-2032)
- 2.3 United States Sub-GHz Transceiver Consumption (2021-2032)
- 2.4 China Sub-GHz Transceiver Consumption (2021-2032)
- 2.5 Europe Sub-GHz Transceiver Consumption (2021-2032)
- 2.6 Japan Sub-GHz Transceiver Consumption (2021-2032)
- 2.7 South Korea Sub-GHz Transceiver Consumption (2021-2032)
- 2.8 ASEAN Sub-GHz Transceiver Consumption (2021-2032)
- 2.9 India Sub-GHz Transceiver Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Sub-GHz Transceiver Production Value by Manufacturer (2021-2026)
- 3.2 World Sub-GHz Transceiver Production by Manufacturer (2021-2026)

- 3.3 World Sub-GHz Transceiver Average Price by Manufacturer (2021-2026)
- 3.4 Sub-GHz Transceiver Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Sub-GHz Transceiver Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Sub-GHz Transceiver in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Sub-GHz Transceiver in 2025
- 3.6 Sub-GHz Transceiver Market: Overall Company Footprint Analysis
 - 3.6.1 Sub-GHz Transceiver Market: Region Footprint
 - 3.6.2 Sub-GHz Transceiver Market: Company Product Type Footprint
 - 3.6.3 Sub-GHz Transceiver Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Sub-GHz Transceiver Production Value Comparison
 - 4.1.1 United States VS China: Sub-GHz Transceiver Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Sub-GHz Transceiver Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Sub-GHz Transceiver Production Comparison
 - 4.2.1 United States VS China: Sub-GHz Transceiver Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Sub-GHz Transceiver Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Sub-GHz Transceiver Consumption Comparison
 - 4.3.1 United States VS China: Sub-GHz Transceiver Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Sub-GHz Transceiver Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Sub-GHz Transceiver Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Sub-GHz Transceiver Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Sub-GHz Transceiver Production Value

(2021-2026)

4.4.3 United States Based Manufacturers Sub-GHz Transceiver Production

(2021-2026)

4.5 China Based Sub-GHz Transceiver Manufacturers and Market Share

4.5.1 China Based Sub-GHz Transceiver Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Sub-GHz Transceiver Production Value (2021-2026)

4.5.3 China Based Manufacturers Sub-GHz Transceiver Production (2021-2026)

4.6 Rest of World Based Sub-GHz Transceiver Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Sub-GHz Transceiver Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Sub-GHz Transceiver Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Sub-GHz Transceiver Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Sub-GHz Transceiver Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Sub-GHz Transceiver IC

5.2.2 Sub-GHz Transceiver Module

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Sub-GHz Transceiver Production by Type (2021-2032)

5.3.2 World Sub-GHz Transceiver Production Value by Type (2021-2032)

5.3.3 World Sub-GHz Transceiver Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY COMMUNICATION PROTOCOL

6.1 World Sub-GHz Transceiver Market Size Overview by Communication Protocol: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Communication Protocol

6.2.1 LoRa/LoRaWAN Transceiver

6.2.2 Wireless M-Bus Transceiver

6.2.3 Others

6.3 Market Segment by Communication Protocol

- 6.3.1 World Sub-GHz Transceiver Production by Communication Protocol (2021-2032)
- 6.3.2 World Sub-GHz Transceiver Production Value by Communication Protocol (2021-2032)
- 6.3.3 World Sub-GHz Transceiver Average Price by Communication Protocol (2021-2032)

7 MARKET ANALYSIS BY FREQUENCY BAND

- 7.1 World Sub-GHz Transceiver Market Size Overview by Frequency Band: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Frequency Band
 - 7.2.1 315 MHz Transceiver
 - 7.2.2 433 MHz Transceiver
 - 7.2.3 470 MHz Transceiver
 - 7.2.4 Others
- 7.3 Market Segment by Frequency Band
 - 7.3.1 World Sub-GHz Transceiver Production by Frequency Band (2021-2032)
 - 7.3.2 World Sub-GHz Transceiver Production Value by Frequency Band (2021-2032)
 - 7.3.3 World Sub-GHz Transceiver Average Price by Frequency Band (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Sub-GHz Transceiver Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Smart Home and Smart City
 - 8.2.2 Smart Factory
 - 8.2.3 Smart Grid
 - 8.2.4 Automotive
 - 8.2.5 Others
- 8.3 Market Segment by Application
 - 8.3.1 World Sub-GHz Transceiver Production by Application (2021-2032)
 - 8.3.2 World Sub-GHz Transceiver Production Value by Application (2021-2032)
 - 8.3.3 World Sub-GHz Transceiver Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Renesas
 - 9.1.1 Renesas Details

- 9.1.2 Renesas Major Business
- 9.1.3 Renesas Sub-GHz Transceiver Product and Services
- 9.1.4 Renesas Sub-GHz Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Renesas Recent Developments/Updates
- 9.1.6 Renesas Competitive Strengths & Weaknesses
- 9.2 Semtech
 - 9.2.1 Semtech Details
 - 9.2.2 Semtech Major Business
 - 9.2.3 Semtech Sub-GHz Transceiver Product and Services
 - 9.2.4 Semtech Sub-GHz Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Semtech Recent Developments/Updates
 - 9.2.6 Semtech Competitive Strengths & Weaknesses
- 9.3 Texas Instruments
 - 9.3.1 Texas Instruments Details
 - 9.3.2 Texas Instruments Major Business
 - 9.3.3 Texas Instruments Sub-GHz Transceiver Product and Services
 - 9.3.4 Texas Instruments Sub-GHz Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Texas Instruments Recent Developments/Updates
 - 9.3.6 Texas Instruments Competitive Strengths & Weaknesses
- 9.4 Silicon Labs
 - 9.4.1 Silicon Labs Details
 - 9.4.2 Silicon Labs Major Business
 - 9.4.3 Silicon Labs Sub-GHz Transceiver Product and Services
 - 9.4.4 Silicon Labs Sub-GHz Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Silicon Labs Recent Developments/Updates
 - 9.4.6 Silicon Labs Competitive Strengths & Weaknesses
- 9.5 STMicroelectronics
 - 9.5.1 STMicroelectronics Details
 - 9.5.2 STMicroelectronics Major Business
 - 9.5.3 STMicroelectronics Sub-GHz Transceiver Product and Services
 - 9.5.4 STMicroelectronics Sub-GHz Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 STMicroelectronics Recent Developments/Updates
 - 9.5.6 STMicroelectronics Competitive Strengths & Weaknesses
- 9.6 NXP

- 9.6.1 NXP Details
- 9.6.2 NXP Major Business
- 9.6.3 NXP Sub-GHz Transceiver Product and Services
- 9.6.4 NXP Sub-GHz Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 NXP Recent Developments/Updates
- 9.6.6 NXP Competitive Strengths & Weaknesses
- 9.7 Analog Devices
 - 9.7.1 Analog Devices Details
 - 9.7.2 Analog Devices Major Business
 - 9.7.3 Analog Devices Sub-GHz Transceiver Product and Services
 - 9.7.4 Analog Devices Sub-GHz Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Analog Devices Recent Developments/Updates
 - 9.7.6 Analog Devices Competitive Strengths & Weaknesses
- 9.8 Microchip Technology Inc
 - 9.8.1 Microchip Technology Inc Details
 - 9.8.2 Microchip Technology Inc Major Business
 - 9.8.3 Microchip Technology Inc Sub-GHz Transceiver Product and Services
 - 9.8.4 Microchip Technology Inc Sub-GHz Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Microchip Technology Inc Recent Developments/Updates
 - 9.8.6 Microchip Technology Inc Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Sub-GHz Transceiver Industry Chain
- 10.2 Sub-GHz Transceiver Upstream Analysis
 - 10.2.1 Sub-GHz Transceiver Core Raw Materials
 - 10.2.2 Main Manufacturers of Sub-GHz Transceiver Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Sub-GHz Transceiver Production Mode
- 10.6 Sub-GHz Transceiver Procurement Model
- 10.7 Sub-GHz Transceiver Industry Sales Model and Sales Channels
 - 10.7.1 Sub-GHz Transceiver Sales Model
 - 10.7.2 Sub-GHz Transceiver Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Sub-GHz Transceiver Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Sub-GHz Transceiver Production Value by Region (2021-2026) & (USD Million)

Table 3. World Sub-GHz Transceiver Production Value by Region (2027-2032) & (USD Million)

Table 4. World Sub-GHz Transceiver Production Value Market Share by Region (2021-2026)

Table 5. World Sub-GHz Transceiver Production Value Market Share by Region (2027-2032)

Table 6. World Sub-GHz Transceiver Production by Region (2021-2026) & (K Units)

Table 7. World Sub-GHz Transceiver Production by Region (2027-2032) & (K Units)

Table 8. World Sub-GHz Transceiver Production Market Share by Region (2021-2026)

Table 9. World Sub-GHz Transceiver Production Market Share by Region (2027-2032)

Table 10. World Sub-GHz Transceiver Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Sub-GHz Transceiver Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Sub-GHz Transceiver Major Market Trends

Table 13. World Sub-GHz Transceiver Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Sub-GHz Transceiver Consumption by Region (2021-2026) & (K Units)

Table 15. World Sub-GHz Transceiver Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Sub-GHz Transceiver Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Sub-GHz Transceiver Producers in 2025

Table 18. World Sub-GHz Transceiver Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Sub-GHz Transceiver Producers in 2025

Table 20. World Sub-GHz Transceiver Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Sub-GHz Transceiver Company Evaluation Quadrant

Table 22. World Sub-GHz Transceiver Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and Sub-GHz Transceiver Production Site of Key Manufacturer

Table 24. Sub-GHz Transceiver Market: Company Product Type Footprint

Table 25. Sub-GHz Transceiver Market: Company Product Application Footprint

Table 26. Sub-GHz Transceiver Competitive Factors

Table 27. Sub-GHz Transceiver New Entrant and Capacity Expansion Plans

Table 28. Sub-GHz Transceiver Mergers & Acquisitions Activity

Table 29. United States VS China Sub-GHz Transceiver Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Sub-GHz Transceiver Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Sub-GHz Transceiver Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Sub-GHz Transceiver Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Sub-GHz Transceiver Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Sub-GHz Transceiver Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Sub-GHz Transceiver Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Sub-GHz Transceiver Production Market Share (2021-2026)

Table 37. China Based Sub-GHz Transceiver Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Sub-GHz Transceiver Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Sub-GHz Transceiver Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Sub-GHz Transceiver Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Sub-GHz Transceiver Production Market Share (2021-2026)

Table 42. Rest of World Based Sub-GHz Transceiver Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Sub-GHz Transceiver Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Sub-GHz Transceiver Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Sub-GHz Transceiver Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Sub-GHz Transceiver Production Market Share (2021-2026)

Table 47. World Sub-GHz Transceiver Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Sub-GHz Transceiver Production by Type (2021-2026) & (K Units)

Table 49. World Sub-GHz Transceiver Production by Type (2027-2032) & (K Units)

Table 50. World Sub-GHz Transceiver Production Value by Type (2021-2026) & (USD Million)

Table 51. World Sub-GHz Transceiver Production Value by Type (2027-2032) & (USD Million)

Table 52. World Sub-GHz Transceiver Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Sub-GHz Transceiver Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Sub-GHz Transceiver Production Value by Communication Protocol, (USD Million), 2021 & 2025 & 2032

Table 55. World Sub-GHz Transceiver Production by Communication Protocol (2021-2026) & (K Units)

Table 56. World Sub-GHz Transceiver Production by Communication Protocol (2027-2032) & (K Units)

Table 57. World Sub-GHz Transceiver Production Value by Communication Protocol (2021-2026) & (USD Million)

Table 58. World Sub-GHz Transceiver Production Value by Communication Protocol (2027-2032) & (USD Million)

Table 59. World Sub-GHz Transceiver Average Price by Communication Protocol (2021-2026) & (US\$/Unit)

Table 60. World Sub-GHz Transceiver Average Price by Communication Protocol (2027-2032) & (US\$/Unit)

Table 61. World Sub-GHz Transceiver Production Value by Frequency Band, (USD Million), 2021 & 2025 & 2032

Table 62. World Sub-GHz Transceiver Production by Frequency Band (2021-2026) & (K Units)

Table 63. World Sub-GHz Transceiver Production by Frequency Band (2027-2032) & (K Units)

Table 64. World Sub-GHz Transceiver Production Value by Frequency Band (2021-2026) & (USD Million)

Table 65. World Sub-GHz Transceiver Production Value by Frequency Band (2027-2032) & (USD Million)

Table 66. World Sub-GHz Transceiver Average Price by Frequency Band (2021-2026)

& (US\$/Unit)

Table 67. World Sub-GHz Transceiver Average Price by Frequency Band (2027-2032)

& (US\$/Unit)

Table 68. World Sub-GHz Transceiver Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Sub-GHz Transceiver Production by Application (2021-2026) & (K Units)

Table 70. World Sub-GHz Transceiver Production by Application (2027-2032) & (K Units)

Table 71. World Sub-GHz Transceiver Production Value by Application (2021-2026) & (USD Million)

Table 72. World Sub-GHz Transceiver Production Value by Application (2027-2032) & (USD Million)

Table 73. World Sub-GHz Transceiver Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Sub-GHz Transceiver Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Renesas Basic Information, Manufacturing Base and Competitors

Table 76. Renesas Major Business

Table 77. Renesas Sub-GHz Transceiver Product and Services

Table 78. Renesas Sub-GHz Transceiver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Renesas Recent Developments/Updates

Table 80. Renesas Competitive Strengths & Weaknesses

Table 81. Semtech Basic Information, Manufacturing Base and Competitors

Table 82. Semtech Major Business

Table 83. Semtech Sub-GHz Transceiver Product and Services

Table 84. Semtech Sub-GHz Transceiver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Semtech Recent Developments/Updates

Table 86. Semtech Competitive Strengths & Weaknesses

Table 87. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 88. Texas Instruments Major Business

Table 89. Texas Instruments Sub-GHz Transceiver Product and Services

Table 90. Texas Instruments Sub-GHz Transceiver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Texas Instruments Recent Developments/Updates

Table 92. Texas Instruments Competitive Strengths & Weaknesses

Table 93. Silicon Labs Basic Information, Manufacturing Base and Competitors

Table 94. Silicon Labs Major Business

Table 95. Silicon Labs Sub-GHz Transceiver Product and Services

Table 96. Silicon Labs Sub-GHz Transceiver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Silicon Labs Recent Developments/Updates

Table 98. Silicon Labs Competitive Strengths & Weaknesses

Table 99. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 100. STMicroelectronics Major Business

Table 101. STMicroelectronics Sub-GHz Transceiver Product and Services

Table 102. STMicroelectronics Sub-GHz Transceiver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. STMicroelectronics Recent Developments/Updates

Table 104. STMicroelectronics Competitive Strengths & Weaknesses

Table 105. NXP Basic Information, Manufacturing Base and Competitors

Table 106. NXP Major Business

Table 107. NXP Sub-GHz Transceiver Product and Services

Table 108. NXP Sub-GHz Transceiver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. NXP Recent Developments/Updates

Table 110. NXP Competitive Strengths & Weaknesses

Table 111. Analog Devices Basic Information, Manufacturing Base and Competitors

Table 112. Analog Devices Major Business

Table 113. Analog Devices Sub-GHz Transceiver Product and Services

Table 114. Analog Devices Sub-GHz Transceiver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Analog Devices Recent Developments/Updates

Table 116. Analog Devices Competitive Strengths & Weaknesses

Table 117. Microchip Technology Inc Basic Information, Manufacturing Base and Competitors

Table 118. Microchip Technology Inc Major Business

Table 119. Microchip Technology Inc Sub-GHz Transceiver Product and Services

Table 120. Microchip Technology Inc Sub-GHz Transceiver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Microchip Technology Inc Recent Developments/Updates

Table 122. Microchip Technology Inc Competitive Strengths & Weaknesses

Table 123. Global Key Players of Sub-GHz Transceiver Upstream (Raw Materials)

Table 124. Global Sub-GHz Transceiver Typical Customers

Table 125. Sub-GHz Transceiver Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Sub-GHz Transceiver Picture

Figure 2. World Sub-GHz Transceiver Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Sub-GHz Transceiver Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Sub-GHz Transceiver Production (2021-2032) & (K Units)

Figure 5. World Sub-GHz Transceiver Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Sub-GHz Transceiver Production Value Market Share by Region (2021-2032)

Figure 7. World Sub-GHz Transceiver Production Market Share by Region (2021-2032)

Figure 8. North America Sub-GHz Transceiver Production (2021-2032) & (K Units)

Figure 9. Europe Sub-GHz Transceiver Production (2021-2032) & (K Units)

Figure 10. Japan Sub-GHz Transceiver Production (2021-2032) & (K Units)

Figure 11. Sub-GHz Transceiver Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Sub-GHz Transceiver Consumption (2021-2032) & (K Units)

Figure 14. World Sub-GHz Transceiver Consumption Market Share by Region (2021-2032)

Figure 15. United States Sub-GHz Transceiver Consumption (2021-2032) & (K Units)

Figure 16. China Sub-GHz Transceiver Consumption (2021-2032) & (K Units)

Figure 17. Europe Sub-GHz Transceiver Consumption (2021-2032) & (K Units)

Figure 18. Japan Sub-GHz Transceiver Consumption (2021-2032) & (K Units)

Figure 19. South Korea Sub-GHz Transceiver Consumption (2021-2032) & (K Units)

Figure 20. ASEAN Sub-GHz Transceiver Consumption (2021-2032) & (K Units)

Figure 21. India Sub-GHz Transceiver Consumption (2021-2032) & (K Units)

Figure 22. Producer Shipments of Sub-GHz Transceiver by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Sub-GHz Transceiver Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Sub-GHz Transceiver Markets in 2025

Figure 25. United States VS China: Sub-GHz Transceiver Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Sub-GHz Transceiver Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Sub-GHz Transceiver Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Sub-GHz Transceiver Production Market Share 2025

Figure 29. China Based Manufacturers Sub-GHz Transceiver Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Sub-GHz Transceiver Production Market Share 2025

Figure 31. World Sub-GHz Transceiver Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World Sub-GHz Transceiver Production Value Market Share by Type in 2025

Figure 33. Sub-GHz Transceiver IC

Figure 34. Sub-GHz Transceiver Module

Figure 35. Others

Figure 36. World Sub-GHz Transceiver Production Market Share by Type (2021-2032)

Figure 37. World Sub-GHz Transceiver Production Value Market Share by Type (2021-2032)

Figure 38. World Sub-GHz Transceiver Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Sub-GHz Transceiver Production Value by Communication Protocol, (USD Million), 2021 & 2025 & 2032

Figure 40. World Sub-GHz Transceiver Production Value Market Share by Communication Protocol in 2025

Figure 41. LoRa/LoRaWAN Transceiver

Figure 42. Wireless M-Bus Transceiver

Figure 43. Others

Figure 44. World Sub-GHz Transceiver Production Market Share by Communication Protocol (2021-2032)

Figure 45. World Sub-GHz Transceiver Production Value Market Share by Communication Protocol (2021-2032)

Figure 46. World Sub-GHz Transceiver Average Price by Communication Protocol (2021-2032) & (US\$/Unit)

Figure 47. World Sub-GHz Transceiver Production Value by Frequency Band, (USD Million), 2021 & 2025 & 2032

Figure 48. World Sub-GHz Transceiver Production Value Market Share by Frequency Band in 2025

Figure 49. 315 MHz Transceiver

Figure 50. 433 MHz Transceiver

Figure 51. 470 MHz Transceiver

Figure 52. Others

Figure 53. World Sub-GHz Transceiver Production Market Share by Frequency Band (2021-2032)

Figure 54. World Sub-GHz Transceiver Production Value Market Share by Frequency Band (2021-2032)

Figure 55. World Sub-GHz Transceiver Average Price by Frequency Band (2021-2032) & (US\$/Unit)

Figure 56. World Sub-GHz Transceiver Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Sub-GHz Transceiver Production Value Market Share by Application in 2025

Figure 58. Smart Home and Smart City

Figure 59. Smart Factory

Figure 60. Smart Grid

Figure 61. Automotive

Figure 62. Others

Figure 63. World Sub-GHz Transceiver Production Market Share by Application (2021-2032)

Figure 64. World Sub-GHz Transceiver Production Value Market Share by Application (2021-2032)

Figure 65. World Sub-GHz Transceiver Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Sub-GHz Transceiver Industry Chain

Figure 67. Sub-GHz Transceiver Procurement Model

Figure 68. Sub-GHz Transceiver Sales Model

Figure 69. Sub-GHz Transceiver Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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