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Global LoRa Transceiver Chip Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global LoRa Transceiver Chip market size was valued at US$ 327 million in 2025 and is forecast to a readjusted size of US$ 706 million by 2032 with a CAGR of 11.6% during review period.

LoRa Transceiver Chip refers to a semiconductor device that performs LoRa chirp-spread-spectrum signal generation, radio-frequency transmission, reception, demodulation and link control for low-power wide-area IoT connectivity. The study focuses on chip-level products supplied as discrete LoRa RF transceivers, MCU SoCs integrating processing, memory and a LoRa-enabled radio on a single die, and system-in-package devices combining control and radio functions within one package. Core performance parameters include operating frequency, receiver sensitivity, transmit power, link budget, spreading factor, channel bandwidth, data rate, current consumption, memory capacity, security capability and package size. Products are primarily designed for regional sub-GHz license-exempt bands, while advanced devices may also support 2.4 GHz, multi-band operation and satellite-oriented connectivity. Their principal functions are long-range communication, ultra-low-power data transmission, interference-resistant reception, channel detection, device control and, in selected products, ranging or geolocation assistance. Major applications include smart metering, asset tracking, industrial monitoring, building and infrastructure control, agricultural sensing, environmental monitoring and satellite-connected IoT terminals.

Key Findings

Four companies constitute the verified Core Formal List under the strict chip-level

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market scope

Smart metering remains the largest established application for LoRa Transceiver Chip demand

Discrete transceivers MCU SoCs and chip-level SiPs are the principal commercial product forms

More than 125 million LoRaWAN end devices had been deployed globally by the end of 2025

Supply remains highly concentrated at the radio IP and transceiver semiconductor level

Market Trends

The LoRa Transceiver Chip market is shifting from conventional regional sub-GHz connectivity toward more integrated, multi-band and application-specific semiconductor platforms. Product development is increasingly focused on reducing endpoint bill of materials, extending battery life, improving receiver sensitivity and adding embedded processing, security and memory. At the same time, new transceiver generations are expanding beyond traditional low-data-rate sensing by supporting higher throughput, additional physical layers, 2.4 GHz operation and terrestrial-to-satellite connectivity. This evolution broadens the addressable use cases from periodic meter reading and basic monitoring to image-assisted sensing, mobile asset tracking and remote equipment management. Integration is also becoming a more important purchasing criterion: MCU SoCs and chip-level SiPs can simplify hardware design and shorten certification and development cycles, while discrete transceivers remain relevant where customers require processor flexibility or differentiated system architecture. Semtech’s fourth-generation LoRa portfolio and the continued development of integrated STM32WL and SAM R34/R35 platforms illustrate the parallel advancement of high-performance transceivers and integrated endpoint solutions.

Market Dynamics

Drivers

Demand is supported by the continuing digitization of utility infrastructure, industrial assets, buildings and distributed sensing networks. Smart water, gas and electricity

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metering provides a particularly stable deployment base because devices require long operating lives, broad coverage and low maintenance frequency. Private LoRaWAN networks also allow utilities, municipalities and industrial operators to deploy dedicated connectivity without depending entirely on public cellular networks. The expansion of certified devices, network infrastructure and developer tools lowers adoption barriers and reinforces the ecosystem effect. The LoRa Alliance reported more than 125 million deployed LoRaWAN end devices by the end of 2025, indicating that the technology has progressed from pilot-scale adoption to large commercial networks.

Restraints

Market expansion is constrained by persistent price pressure in mature discrete transceivers, long qualification cycles in utility and industrial projects, and the fragmented frequency regulations applied across different countries. Customers may require multiple hardware variants, certifications and antenna designs, increasing development expense even when the underlying chip platform is common. LoRa Transceiver Chip suppliers also face competition from NB-IoT, LTE-M, Wi-SUN, mioty and proprietary sub-GHz technologies. Integrated SoCs can reduce system cost but may create greater dependence on a specific processor, software environment or radio architecture, while discrete solutions carry higher component and design complexity. These trade-offs limit the ability of any single product structure to dominate all applications.

Opportunities

The strongest opportunities are associated with higher-value connectivity rather than simple replacement of earlier-generation low-cost transceivers. Multi-band products can support global asset platforms, while satellite-capable devices extend connectivity to logistics corridors, agriculture, maritime operations and remote infrastructure outside terrestrial network coverage. Integrated geolocation, ranging, security engines and wake-up functions can increase semiconductor content per endpoint and improve differentiation. Additional opportunity exists in locally designed SoCs and compatible chirp-based devices for projects that prioritize supply-chain localization, cost control and domestic technical support. Advanced LoRa devices supporting sub-GHz, 2.4 GHz and satellite-oriented bands create a broader platform for global tracking and hybrid terrestrial-satellite deployments.

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Challenges

The principal long-term challenge is balancing ecosystem compatibility with technical and commercial differentiation. New products must preserve interoperability with established LoRaWAN networks while delivering measurable improvements in power consumption, range, throughput, security or integration. Semiconductor vendors must also support long product lifecycles, regional radio requirements and extensive software tools, particularly for metering and industrial customers. Compatible or alternative chirp-based chips may gain local projects but face greater difficulty establishing international certification, developer acceptance and cross-vendor interoperability. Market concentration at the underlying radio technology level further raises the entry barrier for new suppliers and makes sustained investment in RF design, protocol support and customer qualification essential.

Industry Chain Analysis

The upstream industry chain consists of radio and baseband intellectual property, semiconductor design tools, wafer foundry capacity, process technologies, RF front-end components, packaging substrates and assembly and testing services. LoRa Transceiver Chip suppliers may operate as fabless companies, integrated device manufacturers or mixed-model semiconductor groups. Value creation at this stage depends on RF architecture, receiver sensitivity, power-management design, protocol compatibility, embedded security, process selection and the ability to achieve stable yields at competitive cost. Wafer fabrication and packaging represent important manufacturing costs, but software development kits, reference designs, certification support and long-term supply assurance are also major components of the commercial value proposition.

The midstream converts chip platforms into modules, embedded boards and certified communication products, adding crystals, antennas, matching networks, power management and regional regulatory approvals. Downstream value is created through smart meters, trackers, industrial sensors, building-control devices and other connected endpoints, followed by gateways, network servers, device-management platforms and application systems. Chip suppliers with stronger development ecosystems can influence downstream design selection even without manufacturing the final module or terminal. Profitability generally depends less on production volume alone than on product mix, technology generation, integration level, customer qualification and the duration of each design cycle.

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Segment Insights

By product type, discrete LoRa transceiver ICs remain the structural foundation of the market and support the widest range of external-MCU architectures. MCU SoCs represent the most important integrated segment because they combine processing and LoRa radio functions on one die, reducing component count and board area. Chip-level SiPs serve customers seeking simplified implementation while retaining a multi-die architecture. Integrated products generally command higher unit values, whereas mature discrete devices account for a larger share of high-volume, cost-sensitive endpoints.

By technology, regional sub-GHz products continue to represent the largest installed product base, but wideband sub-GHz and multi-band devices provide stronger incremental opportunities. Basic connectivity remains the mainstream functional requirement, while ultra-low-power operation, embedded security, high-throughput modes, geolocation support and satellite connectivity are becoming more important differentiators. Segment growth will therefore be driven by a combination of high-volume standard devices and lower-volume, higher-value products designed for tracking, hybrid networks and specialized industrial applications.

Downstream Market Opportunities

Smart metering remains the most established downstream opportunity because utility deployments combine large endpoint volumes with long equipment lifecycles and demanding coverage requirements. Industrial monitoring and smart-building systems provide a broader but more fragmented opportunity, with purchasing decisions influenced by network ownership, installation conditions and integration with existing control platforms. Asset tracking is gaining strategic importance because multi-band and satellite-capable chips can support mobile devices across warehouses, transport routes and remote areas. Agricultural and environmental sensing also offer attractive deployment potential where low maintenance, wide coverage and private network control are more important than high data throughput.

Regional Insights

North America and Europe remain the principal centers of upstream LoRa radio technology, high-performance transceiver development and integrated MCU platforms.

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Their markets benefit from established semiconductor ecosystems, utility modernization programs and broad industrial IoT adoption. Greater China has a different structure, combining a major terminal and module manufacturing base with local LoRa SoC development, compatible chirp-chip initiatives and strong demand for supply-chain localization. This creates opportunities for integrated and cost-optimized products, although compatibility and ecosystem recognition remain important competitive filters.

Japan and Taiwan contribute primarily through semiconductor manufacturing, packaging, module integration and electronic component supply rather than through a large number of independent LoRa radio-chip vendors. Southeast Asia is important to semiconductor assembly, testing and electronics production, while emerging Asian, Middle Eastern, African and Latin American markets offer application-led opportunities in metering, agriculture and remote infrastructure. Regional growth will vary according to spectrum rules, network availability, public-utility investment and the economics of competing cellular and non-cellular LPWAN technologies.

Competitive Landscape Analysis

The LoRa Transceiver Chip market has a concentrated core and a broader peripheral ecosystem. Under the verified chip-level scope, Semtech Corporation, STMicroelectronics N.V., Microchip Technology Incorporated and ASR Microelectronics Co., Ltd. form the Core Formal List. Semtech holds the strongest position in discrete LoRa transceiver technology and product-platform breadth, while STMicroelectronics competes through single-die wireless MCU integration, Microchip through highly integrated MCU and radio devices, and ASR through locally developed LPWAN SoCs and chip-level products. The strategic distinction is not simply company size: competitive positioning depends on control of radio technology, integration level, software and development support, supply continuity and access to high-volume designs. A wider group of module vendors and chirp-based alternative-chip suppliers participates around this core, but these companies should not be treated as equivalent to verified original LoRa transceiver-chip suppliers. Future competition is expected to intensify around multi-band performance, battery life, security, satellite connectivity, integration and regional supply-chain support rather than around basic connectivity alone.

Report Scope

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This report is a detailed and comprehensive analysis for global LoRa Transceiver Chip market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global LoRa Transceiver Chip market size and forecasts, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global LoRa Transceiver Chip market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global LoRa Transceiver Chip market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global LoRa Transceiver Chip market shares of main players, shipments in revenue ($ Million), sales quantity (Million Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for LoRa Transceiver Chip

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

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This report profiles key players in the global LoRa Transceiver Chip market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include STMicroelectronics N.V., Microchip Technology Incorporated, Semtech Corporation, ASR Microelectronics Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

LoRa Transceiver Chip market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Discrete LoRa Transceiver IC

LoRa MCU SoC

LoRa System-in-Package

Other Integrated LoRa IC

Market segment by Frequency Coverage

Regional Sub-GHz

Wideband Sub-GHz

Multi-Band LoRa

Other

Market segment by Core Functional Positioning

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Basic Connectivity

Ultra-Low-Power Optimized

Geolocation-Enabled

High-Throughput Enhanced

Satellite-Connectivity Enabled

Other

Market segment by RF Output Power

Low-Power Output

Standard-Power Output

High-Power Output

Other

Market segment by Application

Smart Metering

Asset Tracking

Industrial Monitoring and Control

Smart Building and Infrastructure

Agriculture and Environmental Sensing

Consumer and Personal Devices

Satellite IoT Terminals

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Other Applications

Major players covered

STMicroelectronics N.V.

Microchip Technology Incorporated

Semtech Corporation

ASR Microelectronics Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe LoRa Transceiver Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of LoRa Transceiver Chip, with price, sales quantity, revenue, and global market share of LoRa Transceiver Chip from 2021 to 2026.

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Chapter 3, the LoRa Transceiver Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the LoRa Transceiver Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and LoRa Transceiver Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of LoRa Transceiver Chip.

Chapter 14 and 15, to describe LoRa Transceiver Chip sales channel, distributors, customers, research findings and conclusion.

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Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope
1.2 Market Estimation Caveats and Base Year
1.3 Market Analysis by Type
  1.3.1 Overview: Global LoRa Transceiver Chip Consumption Value by Type: 2021 Versus 2025 Versus 2032
  1.3.2 Discrete LoRa Transceiver IC
  1.3.3 LoRa MCU SoC
  1.3.4 LoRa System-in-Package
  1.3.5 Other Integrated LoRa IC
1.4 Market Analysis by Frequency Coverage
  1.4.1 Overview: Global LoRa Transceiver Chip Consumption Value by Frequency Coverage: 2021 Versus 2025 Versus 2032
  1.4.2 Regional Sub-GHz
  1.4.3 Wideband Sub-GHz
  1.4.4 Multi-Band LoRa
  1.4.5 Other
1.5 Market Analysis by Core Functional Positioning
  1.5.1 Overview: Global LoRa Transceiver Chip Consumption Value by Core Functional Positioning: 2021 Versus 2025 Versus 2032
  1.5.2 Basic Connectivity
  1.5.3 Ultra-Low-Power Optimized
  1.5.4 Geolocation-Enabled
  1.5.5 High-Throughput Enhanced
  1.5.6 Satellite-Connectivity Enabled
  1.5.7 Other
1.6 Market Analysis by RF Output Power
  1.6.1 Overview: Global LoRa Transceiver Chip Consumption Value by RF Output Power: 2021 Versus 2025 Versus 2032
  1.6.2 Low-Power Output
  1.6.3 Standard-Power Output
  1.6.4 High-Power Output
  1.6.5 Other
1.7 Market Analysis by Application
  1.7.1 Overview: Global LoRa Transceiver Chip Consumption Value by Application: 2021 Versus 2025 Versus 2032

+357 96 030922
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1.7.2 Smart Metering
1.7.3 Asset Tracking
1.7.4 Industrial Monitoring and Control
1.7.5 Smart Building and Infrastructure
1.7.6 Agriculture and Environmental Sensing
1.7.7 Consumer and Personal Devices
1.7.8 Satellite IoT Terminals
1.7.9 Other Applications
1.8 Global LoRa Transceiver Chip Market Size & Forecast
1.8.1 Global LoRa Transceiver Chip Consumption Value (2021 & 2025 & 2032)
1.8.2 Global LoRa Transceiver Chip Sales Quantity (2021-2032)
1.8.3 Global LoRa Transceiver Chip Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 STMicroelectronics N.V.
2.1.1 STMicroelectronics N.V. Details
2.1.2 STMicroelectronics N.V. Major Business
2.1.3 STMicroelectronics N.V. LoRa Transceiver Chip Product and Services
2.1.4 STMicroelectronics N.V. LoRa Transceiver Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.1.5 STMicroelectronics N.V. Recent Developments/Updates
2.2 Microchip Technology Incorporated
2.2.1 Microchip Technology Incorporated Details
2.2.2 Microchip Technology Incorporated Major Business
2.2.3 Microchip Technology Incorporated LoRa Transceiver Chip Product and Services
2.2.4 Microchip Technology Incorporated LoRa Transceiver Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.2.5 Microchip Technology Incorporated Recent Developments/Updates
2.3 Semtech Corporation
2.3.1 Semtech Corporation Details
2.3.2 Semtech Corporation Major Business
2.3.3 Semtech Corporation LoRa Transceiver Chip Product and Services
2.3.4 Semtech Corporation LoRa Transceiver Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.3.5 Semtech Corporation Recent Developments/Updates
2.4 ASR Microelectronics Co., Ltd.
2.4.1 ASR Microelectronics Co., Ltd. Details
2.4.2 ASR Microelectronics Co., Ltd. Major Business

+357 96 030922
info@marketpublishers.com

2.4.3 ASR Microelectronics Co., Ltd. LoRa Transceiver Chip Product and Services
2.4.4 ASR Microelectronics Co., Ltd. LoRa Transceiver Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.4.5 ASR Microelectronics Co., Ltd. Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: LORA TRANSCEIVER CHIP BY MANUFACTURER

3.1 Global LoRa Transceiver Chip Sales Quantity by Manufacturer (2021-2026)
3.2 Global LoRa Transceiver Chip Revenue by Manufacturer (2021-2026)
3.3 Global LoRa Transceiver Chip Average Price by Manufacturer (2021-2026)
3.4 Market Share Analysis (2025)
3.4.1 Producer Shipments of LoRa Transceiver Chip by Manufacturer Revenue ($MM) and Market Share (%): 2025
3.4.2 Top 3 LoRa Transceiver Chip Manufacturer Market Share in 2025
3.4.3 Top 6 LoRa Transceiver Chip Manufacturer Market Share in 2025
3.5 LoRa Transceiver Chip Market: Overall Company Footprint Analysis
3.5.1 LoRa Transceiver Chip Market: Region Footprint
3.5.2 LoRa Transceiver Chip Market: Company Product Type Footprint
3.5.3 LoRa Transceiver Chip Market: Company Product Application Footprint
3.6 New Market Entrants and Barriers to Market Entry
3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global LoRa Transceiver Chip Market Size by Region
4.1.1 Global LoRa Transceiver Chip Sales Quantity by Region (2021-2032)
4.1.2 Global LoRa Transceiver Chip Consumption Value by Region (2021-2032)
4.1.3 Global LoRa Transceiver Chip Average Price by Region (2021-2032)
4.2 North America LoRa Transceiver Chip Consumption Value (2021-2032)
4.3 Europe LoRa Transceiver Chip Consumption Value (2021-2032)
4.4 Asia-Pacific LoRa Transceiver Chip Consumption Value (2021-2032)
4.5 South America LoRa Transceiver Chip Consumption Value (2021-2032)
4.6 Middle East & Africa LoRa Transceiver Chip Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global LoRa Transceiver Chip Sales Quantity by Type (2021-2032)
5.2 Global LoRa Transceiver Chip Consumption Value by Type (2021-2032)

+357 96 030922
info@marketpublishers.com

5.3 Global LoRa Transceiver Chip Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global LoRa Transceiver Chip Sales Quantity by Application (2021-2032)
6.2 Global LoRa Transceiver Chip Consumption Value by Application (2021-2032)
6.3 Global LoRa Transceiver Chip Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America LoRa Transceiver Chip Sales Quantity by Type (2021-2032)
7.2 North America LoRa Transceiver Chip Sales Quantity by Application (2021-2032)
7.3 North America LoRa Transceiver Chip Market Size by Country
  7.3.1 North America LoRa Transceiver Chip Sales Quantity by Country (2021-2032)
  7.3.2 North America LoRa Transceiver Chip Consumption Value by Country (2021-2032)
  7.3.3 United States Market Size and Forecast (2021-2032)
  7.3.4 Canada Market Size and Forecast (2021-2032)
  7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe LoRa Transceiver Chip Sales Quantity by Type (2021-2032)
8.2 Europe LoRa Transceiver Chip Sales Quantity by Application (2021-2032)
8.3 Europe LoRa Transceiver Chip Market Size by Country
  8.3.1 Europe LoRa Transceiver Chip Sales Quantity by Country (2021-2032)
  8.3.2 Europe LoRa Transceiver Chip Consumption Value by Country (2021-2032)
  8.3.3 Germany Market Size and Forecast (2021-2032)
  8.3.4 France Market Size and Forecast (2021-2032)
  8.3.5 United Kingdom Market Size and Forecast (2021-2032)
  8.3.6 Russia Market Size and Forecast (2021-2032)
  8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific LoRa Transceiver Chip Sales Quantity by Type (2021-2032)
9.2 Asia-Pacific LoRa Transceiver Chip Sales Quantity by Application (2021-2032)
9.3 Asia-Pacific LoRa Transceiver Chip Market Size by Region
  9.3.1 Asia-Pacific LoRa Transceiver Chip Sales Quantity by Region (2021-2032)

+357 96 030922
info@marketpublishers.com

9.3.2 Asia-Pacific LoRa Transceiver Chip Consumption Value by Region (2021-2032)
9.3.3 China Market Size and Forecast (2021-2032)
9.3.4 Japan Market Size and Forecast (2021-2032)
9.3.5 South Korea Market Size and Forecast (2021-2032)
9.3.6 India Market Size and Forecast (2021-2032)
9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America LoRa Transceiver Chip Sales Quantity by Type (2021-2032)
10.2 South America LoRa Transceiver Chip Sales Quantity by Application (2021-2032)
10.3 South America LoRa Transceiver Chip Market Size by Country
10.3.1 South America LoRa Transceiver Chip Sales Quantity by Country (2021-2032)
10.3.2 South America LoRa Transceiver Chip Consumption Value by Country (2021-2032)
10.3.3 Brazil Market Size and Forecast (2021-2032)
10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa LoRa Transceiver Chip Sales Quantity by Type (2021-2032)
11.2 Middle East & Africa LoRa Transceiver Chip Sales Quantity by Application (2021-2032)
11.3 Middle East & Africa LoRa Transceiver Chip Market Size by Country
11.3.1 Middle East & Africa LoRa Transceiver Chip Sales Quantity by Country (2021-2032)
11.3.2 Middle East & Africa LoRa Transceiver Chip Consumption Value by Country (2021-2032)
11.3.3 Turkey Market Size and Forecast (2021-2032)
11.3.4 Egypt Market Size and Forecast (2021-2032)
11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 LoRa Transceiver Chip Market Drivers
12.2 LoRa Transceiver Chip Market Restraints
12.3 LoRa Transceiver Chip Trends Analysis

+357 96 030922
info@marketpublishers.com

12.4 Porters Five Forces Analysis
12.4.1 Threat of New Entrants
12.4.2 Bargaining Power of Suppliers
12.4.3 Bargaining Power of Buyers
12.4.4 Threat of Substitutes
12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of LoRa Transceiver Chip and Key Manufacturers
13.2 Manufacturing Costs Percentage of LoRa Transceiver Chip
13.3 LoRa Transceiver Chip Production Process
13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel
14.1.1 Direct to End-User
14.1.2 Distributors
14.2 LoRa Transceiver Chip Typical Distributors
14.3 LoRa Transceiver Chip Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology
16.2 Research Process and Data Source
16.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Global LoRa Transceiver Chip Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
Table 2. Global LoRa Transceiver Chip Consumption Value by Frequency Coverage, (USD Million), 2021 & 2025 & 2032
Table 3. Global LoRa Transceiver Chip Consumption Value by Core Functional Positioning, (USD Million), 2021 & 2025 & 2032
Table 4. Global LoRa Transceiver Chip Consumption Value by RF Output Power, (USD Million), 2021 & 2025 & 2032
Table 5. Global LoRa Transceiver Chip Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Table 6. STMicroelectronics N.V. Basic Information, Manufacturing Base and Competitors
Table 7. STMicroelectronics N.V. Major Business
Table 8. STMicroelectronics N.V. LoRa Transceiver Chip Product and Services
Table 9. STMicroelectronics N.V. LoRa Transceiver Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 10. STMicroelectronics N.V. Recent Developments/Updates
Table 11. Microchip Technology Incorporated Basic Information, Manufacturing Base and Competitors
Table 12. Microchip Technology Incorporated Major Business
Table 13. Microchip Technology Incorporated LoRa Transceiver Chip Product and Services
Table 14. Microchip Technology Incorporated LoRa Transceiver Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 15. Microchip Technology Incorporated Recent Developments/Updates
Table 16. Semtech Corporation Basic Information, Manufacturing Base and Competitors
Table 17. Semtech Corporation Major Business
Table 18. Semtech Corporation LoRa Transceiver Chip Product and Services
Table 19. Semtech Corporation LoRa Transceiver Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 20. Semtech Corporation Recent Developments/Updates
Table 21. ASR Microelectronics Co., Ltd. Basic Information, Manufacturing Base and

+357 96 030922
info@marketpublishers.com

Competitors
Table 22. ASR Microelectronics Co., Ltd. Major Business
Table 23. ASR Microelectronics Co., Ltd. LoRa Transceiver Chip Product and Services
Table 24. ASR Microelectronics Co., Ltd. LoRa Transceiver Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 25. ASR Microelectronics Co., Ltd. Recent Developments/Updates
Table 26. Global LoRa Transceiver Chip Sales Quantity by Manufacturer (2021-2026) & (Million Units)
Table 27. Global LoRa Transceiver Chip Revenue by Manufacturer (2021-2026) & (USD Million)
Table 28. Global LoRa Transceiver Chip Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 29. Market Position of Manufacturers in LoRa Transceiver Chip, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 30. Head Office and LoRa Transceiver Chip Production Site of Key Manufacturer
Table 31. LoRa Transceiver Chip Market: Company Product Type Footprint
Table 32. LoRa Transceiver Chip Market: Company Product Application Footprint
Table 33. LoRa Transceiver Chip New Market Entrants and Barriers to Market Entry
Table 34. LoRa Transceiver Chip Mergers, Acquisition, Agreements, and Collaborations
Table 35. Global LoRa Transceiver Chip Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 36. Global LoRa Transceiver Chip Sales Quantity by Region (2021-2026) & (Million Units)
Table 37. Global LoRa Transceiver Chip Sales Quantity by Region (2027-2032) & (Million Units)
Table 38. Global LoRa Transceiver Chip Consumption Value by Region (2021-2026) & (USD Million)
Table 39. Global LoRa Transceiver Chip Consumption Value by Region (2027-2032) & (USD Million)
Table 40. Global LoRa Transceiver Chip Average Price by Region (2021-2026) & (US$/Unit)
Table 41. Global LoRa Transceiver Chip Average Price by Region (2027-2032) & (US$/Unit)
Table 42. Global LoRa Transceiver Chip Sales Quantity by Type (2021-2026) & (Million Units)
Table 43. Global LoRa Transceiver Chip Sales Quantity by Type (2027-2032) & (Million Units)
Table 44. Global LoRa Transceiver Chip Consumption Value by Type (2021-2026) &

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(USD Million)
Table 45. Global LoRa Transceiver Chip Consumption Value by Type (2027-2032) & (USD Million)
Table 46. Global LoRa Transceiver Chip Average Price by Type (2021-2026) & (US$/Unit)
Table 47. Global LoRa Transceiver Chip Average Price by Type (2027-2032) & (US$/Unit)
Table 48. Global LoRa Transceiver Chip Sales Quantity by Application (2021-2026) & (Million Units)
Table 49. Global LoRa Transceiver Chip Sales Quantity by Application (2027-2032) & (Million Units)
Table 50. Global LoRa Transceiver Chip Consumption Value by Application (2021-2026) & (USD Million)
Table 51. Global LoRa Transceiver Chip Consumption Value by Application (2027-2032) & (USD Million)
Table 52. Global LoRa Transceiver Chip Average Price by Application (2021-2026) & (US$/Unit)
Table 53. Global LoRa Transceiver Chip Average Price by Application (2027-2032) & (US$/Unit)
Table 54. North America LoRa Transceiver Chip Sales Quantity by Type (2021-2026) & (Million Units)
Table 55. North America LoRa Transceiver Chip Sales Quantity by Type (2027-2032) & (Million Units)
Table 56. North America LoRa Transceiver Chip Sales Quantity by Application (2021-2026) & (Million Units)
Table 57. North America LoRa Transceiver Chip Sales Quantity by Application (2027-2032) & (Million Units)
Table 58. North America LoRa Transceiver Chip Sales Quantity by Country (2021-2026) & (Million Units)
Table 59. North America LoRa Transceiver Chip Sales Quantity by Country (2027-2032) & (Million Units)
Table 60. North America LoRa Transceiver Chip Consumption Value by Country (2021-2026) & (USD Million)
Table 61. North America LoRa Transceiver Chip Consumption Value by Country (2027-2032) & (USD Million)
Table 62. Europe LoRa Transceiver Chip Sales Quantity by Type (2021-2026) & (Million Units)
Table 63. Europe LoRa Transceiver Chip Sales Quantity by Type (2027-2032) & (Million Units)

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Table 64. Europe LoRa Transceiver Chip Sales Quantity by Application (2021-2026) & (Million Units)
Table 65. Europe LoRa Transceiver Chip Sales Quantity by Application (2027-2032) & (Million Units)
Table 66. Europe LoRa Transceiver Chip Sales Quantity by Country (2021-2026) & (Million Units)
Table 67. Europe LoRa Transceiver Chip Sales Quantity by Country (2027-2032) & (Million Units)
Table 68. Europe LoRa Transceiver Chip Consumption Value by Country (2021-2026) & (USD Million)
Table 69. Europe LoRa Transceiver Chip Consumption Value by Country (2027-2032) & (USD Million)
Table 70. Asia-Pacific LoRa Transceiver Chip Sales Quantity by Type (2021-2026) & (Million Units)
Table 71. Asia-Pacific LoRa Transceiver Chip Sales Quantity by Type (2027-2032) & (Million Units)
Table 72. Asia-Pacific LoRa Transceiver Chip Sales Quantity by Application (2021-2026) & (Million Units)
Table 73. Asia-Pacific LoRa Transceiver Chip Sales Quantity by Application (2027-2032) & (Million Units)
Table 74. Asia-Pacific LoRa Transceiver Chip Sales Quantity by Region (2021-2026) & (Million Units)
Table 75. Asia-Pacific LoRa Transceiver Chip Sales Quantity by Region (2027-2032) & (Million Units)
Table 76. Asia-Pacific LoRa Transceiver Chip Consumption Value by Region (2021-2026) & (USD Million)
Table 77. Asia-Pacific LoRa Transceiver Chip Consumption Value by Region (2027-2032) & (USD Million)
Table 78. South America LoRa Transceiver Chip Sales Quantity by Type (2021-2026) & (Million Units)
Table 79. South America LoRa Transceiver Chip Sales Quantity by Type (2027-2032) & (Million Units)
Table 80. South America LoRa Transceiver Chip Sales Quantity by Application (2021-2026) & (Million Units)
Table 81. South America LoRa Transceiver Chip Sales Quantity by Application (2027-2032) & (Million Units)
Table 82. South America LoRa Transceiver Chip Sales Quantity by Country (2021-2026) & (Million Units)
Table 83. South America LoRa Transceiver Chip Sales Quantity by Country

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(2027-2032) & (Million Units)
Table 84. South America LoRa Transceiver Chip Consumption Value by Country (2021-2026) & (USD Million)
Table 85. South America LoRa Transceiver Chip Consumption Value by Country (2027-2032) & (USD Million)
Table 86. Middle East & Africa LoRa Transceiver Chip Sales Quantity by Type (2021-2026) & (Million Units)
Table 87. Middle East & Africa LoRa Transceiver Chip Sales Quantity by Type (2027-2032) & (Million Units)
Table 88. Middle East & Africa LoRa Transceiver Chip Sales Quantity by Application (2021-2026) & (Million Units)
Table 89. Middle East & Africa LoRa Transceiver Chip Sales Quantity by Application (2027-2032) & (Million Units)
Table 90. Middle East & Africa LoRa Transceiver Chip Sales Quantity by Country (2021-2026) & (Million Units)
Table 91. Middle East & Africa LoRa Transceiver Chip Sales Quantity by Country (2027-2032) & (Million Units)
Table 92. Middle East & Africa LoRa Transceiver Chip Consumption Value by Country (2021-2026) & (USD Million)
Table 93. Middle East & Africa LoRa Transceiver Chip Consumption Value by Country (2027-2032) & (USD Million)
Table 94. LoRa Transceiver Chip Raw Material
Table 95. Key Manufacturers of LoRa Transceiver Chip Raw Materials
Table 96. LoRa Transceiver Chip Typical Distributors
Table 97. LoRa Transceiver Chip Typical Customers

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List Of Figures

LIST OF FIGURES

Figure 1. LoRa Transceiver Chip Picture
Figure 2. Global LoRa Transceiver Chip Revenue by Type, (USD Million), 2021 & 2025 & 2032
Figure 3. Global LoRa Transceiver Chip Revenue Market Share by Type in 2025
Figure 4. Discrete LoRa Transceiver IC Examples
Figure 5. LoRa MCU SoC Examples
Figure 6. LoRa System-in-Package Examples
Figure 7. Other Integrated LoRa IC Examples
Figure 8. Global LoRa Transceiver Chip Revenue by Frequency Coverage, (USD Million), 2021 & 2025 & 2032
Figure 9. Global LoRa Transceiver Chip Revenue Market Share by Frequency Coverage in 2025
Figure 10. Regional Sub-GHz Examples
Figure 11. Wideband Sub-GHz Examples
Figure 12. Multi-Band LoRa Examples
Figure 13. Other Examples
Figure 14. Global LoRa Transceiver Chip Revenue by Core Functional Positioning, (USD Million), 2021 & 2025 & 2032
Figure 15. Global LoRa Transceiver Chip Revenue Market Share by Core Functional Positioning in 2025
Figure 16. Basic Connectivity Examples
Figure 17. Ultra-Low-Power Optimized Examples
Figure 18. Geolocation-Enabled Examples
Figure 19. High-Throughput Enhanced Examples
Figure 20. Satellite-Connectivity Enabled Examples
Figure 21. Other Examples
Figure 22. Global LoRa Transceiver Chip Revenue by RF Output Power, (USD Million), 2021 & 2025 & 2032
Figure 23. Global LoRa Transceiver Chip Revenue Market Share by RF Output Power in 2025
Figure 24. Low-Power Output Examples
Figure 25. Standard-Power Output Examples
Figure 26. High-Power Output Examples
Figure 27. Other Examples
Figure 28. Global LoRa Transceiver Chip Consumption Value by Application, (USD

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Million), 2021 & 2025 & 2032
Figure 29. Global LoRa Transceiver Chip Revenue Market Share by Application in 2025
Figure 30. Smart Metering Examples
Figure 31. Asset Tracking Examples
Figure 32. Industrial Monitoring and Control Examples
Figure 33. Smart Building and Infrastructure Examples
Figure 34. Agriculture and Environmental Sensing Examples
Figure 35. Consumer and Personal Devices Examples
Figure 36. Satellite IoT Terminals Examples
Figure 37. Other Applications Examples
Figure 38. Other Applications Examples
Figure 39. Global LoRa Transceiver Chip Consumption Value, (USD Million): 2021 & 2025 & 2032
Figure 40. Global LoRa Transceiver Chip Consumption Value and Forecast (2021-2032) & (USD Million)
Figure 41. Global LoRa Transceiver Chip Sales Quantity (2021-2032) & (Million Units)
Figure 42. Global LoRa Transceiver Chip Price (2021-2032) & (US$/Unit)
Figure 43. Global LoRa Transceiver Chip Sales Quantity Market Share by Manufacturer in 2025
Figure 44. Global LoRa Transceiver Chip Revenue Market Share by Manufacturer in 2025
Figure 45. Producer Shipments of LoRa Transceiver Chip by Manufacturer Sales ($MM) and Market Share (%): 2025
Figure 46. Top 3 LoRa Transceiver Chip Manufacturer (Revenue) Market Share in 2025
Figure 47. Top 6 LoRa Transceiver Chip Manufacturer (Revenue) Market Share in 2025
Figure 48. Global LoRa Transceiver Chip Sales Quantity Market Share by Region (2021-2032)
Figure 49. Global LoRa Transceiver Chip Consumption Value Market Share by Region (2021-2032)
Figure 50. North America LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 51. Europe LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 52. Asia-Pacific LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 53. South America LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 54. Middle East & Africa LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)

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Figure 55. Global LoRa Transceiver Chip Sales Quantity Market Share by Type (2021-2032)
Figure 56. Global LoRa Transceiver Chip Consumption Value Market Share by Type (2021-2032)
Figure 57. Global LoRa Transceiver Chip Average Price by Type (2021-2032) & (US$/Unit)
Figure 58. Global LoRa Transceiver Chip Sales Quantity Market Share by Application (2021-2032)
Figure 59. Global LoRa Transceiver Chip Revenue Market Share by Application (2021-2032)
Figure 60. Global LoRa Transceiver Chip Average Price by Application (2021-2032) & (US$/Unit)
Figure 61. North America LoRa Transceiver Chip Sales Quantity Market Share by Type (2021-2032)
Figure 62. North America LoRa Transceiver Chip Sales Quantity Market Share by Application (2021-2032)
Figure 63. North America LoRa Transceiver Chip Sales Quantity Market Share by Country (2021-2032)
Figure 64. North America LoRa Transceiver Chip Consumption Value Market Share by Country (2021-2032)
Figure 65. United States LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 66. Canada LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 67. Mexico LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 68. Europe LoRa Transceiver Chip Sales Quantity Market Share by Type (2021-2032)
Figure 69. Europe LoRa Transceiver Chip Sales Quantity Market Share by Application (2021-2032)
Figure 70. Europe LoRa Transceiver Chip Sales Quantity Market Share by Country (2021-2032)
Figure 71. Europe LoRa Transceiver Chip Consumption Value Market Share by Country (2021-2032)
Figure 72. Germany LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 73. France LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 74. United Kingdom LoRa Transceiver Chip Consumption Value (2021-2032) &

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(USD Million)
Figure 75. Russia LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 76. Italy LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 77. Asia-Pacific LoRa Transceiver Chip Sales Quantity Market Share by Type (2021-2032)
Figure 78. Asia-Pacific LoRa Transceiver Chip Sales Quantity Market Share by Application (2021-2032)
Figure 79. Asia-Pacific LoRa Transceiver Chip Sales Quantity Market Share by Region (2021-2032)
Figure 80. Asia-Pacific LoRa Transceiver Chip Consumption Value Market Share by Region (2021-2032)
Figure 81. China LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 82. Japan LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 83. South Korea LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 84. India LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 85. Southeast Asia LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 86. Australia LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 87. South America LoRa Transceiver Chip Sales Quantity Market Share by Type (2021-2032)
Figure 88. South America LoRa Transceiver Chip Sales Quantity Market Share by Application (2021-2032)
Figure 89. South America LoRa Transceiver Chip Sales Quantity Market Share by Country (2021-2032)
Figure 90. South America LoRa Transceiver Chip Consumption Value Market Share by Country (2021-2032)
Figure 91. Brazil LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 92. Argentina LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 93. Middle East & Africa LoRa Transceiver Chip Sales Quantity Market Share by Type (2021-2032)
Figure 94. Middle East & Africa LoRa Transceiver Chip Sales Quantity Market Share by

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Application (2021-2032)
Figure 95. Middle East & Africa LoRa Transceiver Chip Sales Quantity Market Share by Country (2021-2032)
Figure 96. Middle East & Africa LoRa Transceiver Chip Consumption Value Market Share by Country (2021-2032)
Figure 97. Turkey LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 98. Egypt LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 99. Saudi Arabia LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 100. South Africa LoRa Transceiver Chip Consumption Value (2021-2032) & (USD Million)
Figure 101. LoRa Transceiver Chip Market Drivers
Figure 102. LoRa Transceiver Chip Market Restraints
Figure 103. LoRa Transceiver Chip Market Trends
Figure 104. Porters Five Forces Analysis
Figure 105. Manufacturing Cost Structure Analysis of LoRa Transceiver Chip in 2025
Figure 106. Manufacturing Process Analysis of LoRa Transceiver Chip
Figure 107. LoRa Transceiver Chip Industrial Chain
Figure 108. Sales Channel: Direct to End-User vs Distributors
Figure 109. Direct Channel Pros & Cons
Figure 110. Indirect Channel Pros & Cons
Figure 111. Methodology
Figure 112. Research Process and Data Source

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