

Global Wireless Gigabit Market Size Study, by Offering (SoC, Module), Protocol (IEEE 802.11 ad, IEEE 802.11 ay), Channel (57–65 GHz and Others), Product (Display Devices, Network Infrastructure Devices), End-User Industry (Telecom, Automotive, Consumer Electronics, Railway, Others), and Regional Forecasts 2022–2032

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Abstracts

The global wireless gigabit market, valued at approximately USD 57.82 million in 2023, is expected to expand at a CAGR of 15.7% during the forecast period 2024–2032. This growth is attributed to the increasing demand for high-speed wireless communication technologies driven by applications in 5G infrastructure, IoT devices, and smart city developments. Wireless gigabit (WiGig), operating primarily in the 60 GHz frequency band, delivers data rates up to 7 Gbps, providing a significant edge over traditional Wi-Fi technologies.

The market growth is driven by rapid advancements in connectivity standards such as IEEE 802.11 ad and ay, coupled with the rising adoption of IoT devices and high-bandwidth applications like online gaming, virtual reality (VR), and high-definition streaming. Wireless gigabit solutions are increasingly being adopted in network infrastructure devices, including routers and access points, as well as display devices like high-resolution screens and projectors.

North America held the largest market share in 2024, supported by advanced technological infrastructure and early adoption of WiGig-enabled devices. The Asia Pacific region is expected to record the fastest growth, driven by expanding consumer electronics markets, smart city initiatives, and investments in high-speed connectivity

infrastructure in countries such as China and India.

Key market players, including Peraso Technologies Inc., Tensorcom, Inc., and Qualcomm Technologies, Inc., are focusing on innovation and strategic partnerships to maintain competitive advantage and expand market reach.

Major Market Players Included in this Report Are:

Peraso Technologies Inc.

Tensorcom, Inc.

STMicroelectronics

Qualcomm Technologies, Inc.

Sivers Semiconductors AB

Blu Wireless

Fujikura Ltd.

Renesas Electronics Corporation

Intel Corporation

TP-Link Systems Inc.

Infineon Technologies AG

The detailed segments and sub-segments of the market are explained below:

By Offering

SoC

Module

Integrated Circuits

Custom Solutions

By Protocol

IEEE 802.11 ad

IEEE 802.11 ay

WiGig Tri-Band

WiGig Single-Band

By Channel

57–59 GHz

59–61 GHz

61–63 GHz

63–65 GHz

Others

By Product

Display Devices

Network Infrastructure Devices

Wearable Devices

Smart Home Devices

By End-User Industry

Telecom

Automotive

Consumer Electronics

Railway

Others

By Region:

North America

U.S.

Canada

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Rest of Asia Pacific

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia

UAE

South Africa

Rest of Middle East & Africa

Years Considered for the Study Are as Follows:

Historical Year – 2022

Base Year – 2023

Forecast Period – 2024–2032

Key Takeaways:

Comprehensive market estimates and segment-level revenue forecasts for 10 years.

Analysis of geographical trends and country-specific insights.

Competitive dynamics and key strategies of major players.

Opportunities for investment and technological innovation.

Contents

CHAPTER 1. GLOBAL WIRELESS GIGABIT MARKET EXECUTIVE SUMMARY

- 1.1. Global Wireless Gigabit Market Size & Forecast (2022–2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Offering
 - 1.3.2. By Protocol
 - 1.3.3. By Channel
 - 1.3.4. By Product
 - 1.3.5. By End-User Industry
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendations & Conclusion

CHAPTER 2. GLOBAL WIRELESS GIGABIT MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL WIRELESS GIGABIT MARKET DYNAMICS

- 3.1. Market Drivers
 - 3.1.1. Rising adoption of IoT devices
 - 3.1.2. Expansion of smart city infrastructure
 - 3.1.3. Increasing deployment of 5G networks
- 3.2. Market Challenges
 - 3.2.1. High infrastructure costs
 - 3.2.2. Spectrum allocation and regulatory hurdles
- 3.3. Market Opportunities
 - 3.3.1. Emerging applications in automotive connectivity

3.3.2. Advancements in wireless communication standards

CHAPTER 4. GLOBAL WIRELESS GIGABIT MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Forces Model

4.1.1. Bargaining Power of Suppliers

4.1.2. Bargaining Power of Buyers

4.1.3. Threat of New Entrants

4.1.4. Threat of Substitutes

4.1.5. Competitive Rivalry

4.2. PESTEL Analysis

4.2.1. Political

4.2.2. Economic

4.2.3. Social

4.2.4. Technological

4.2.5. Environmental

4.2.6. Legal

4.3. Investment Opportunities

4.4. Analyst Recommendations

CHAPTER 5. GLOBAL WIRELESS GIGABIT MARKET SIZE & FORECAST BY OFFERING (2022–2032)

5.1. SoC

5.2. Module

5.3. Integrated Circuits

5.4. Custom Solutions

CHAPTER 6. GLOBAL WIRELESS GIGABIT MARKET SIZE & FORECAST BY PROTOCOL (2022–2032)

6.1. IEEE 802.11 ad

6.2. IEEE 802.11 ay

6.3. WiGig Tri-Band

6.4. WiGig Single-Band

CHAPTER 7. GLOBAL WIRELESS GIGABIT MARKET SIZE & FORECAST BY CHANNEL (2022–2032)

- 7.1. 57–59 GHz
- 7.2. 59–61 GHz
- 7.3. 61–63 GHz
- 7.4. 63–65 GHz
- 7.5. Ultra-Wideband (UWB)

CHAPTER 8. GLOBAL WIRELESS GIGABIT MARKET SIZE & FORECAST BY PRODUCT (2022–2032)

- 8.1. Display Devices
 - 8.1.1. TVs and Projectors
 - 8.1.2. Smartphones and Tablets
- 8.2. Network Infrastructure Devices
 - 8.2.1. Routers
 - 8.2.2. Access Points
 - 8.2.3. Network Adapters
- 8.3. Wearable Devices
- 8.4. Smart Home Devices

CHAPTER 9. GLOBAL WIRELESS GIGABIT MARKET SIZE & FORECAST BY END-USER INDUSTRY (2022–2032)

- 9.1. Telecom
- 9.2. Automotive
- 9.3. Consumer Electronics
 - 9.3.1. Gaming Consoles
 - 9.3.2. Virtual Reality Devices
- 9.4. Railway
- 9.5. Industrial Automation
- 9.6. Smart City Applications

CHAPTER 10. GLOBAL WIRELESS GIGABIT MARKET SIZE & FORECAST BY REGION (2022–2032)

- 10.1. North America
 - 10.1.1. U.S.
 - 10.1.2. Canada
- 10.2. Europe
 - 10.2.1. Germany

- 10.2.2. France
- 10.2.3. UK
- 10.2.4. Italy
- 10.2.5. Spain
- 10.2.6. Rest of Europe
- 10.3. Asia Pacific
 - 10.3.1. China
 - 10.3.2. Japan
 - 10.3.3. India
 - 10.3.4. South Korea
 - 10.3.5. Australia
 - 10.3.6. Rest of Asia Pacific
- 10.4. Latin America
 - 10.4.1. Brazil
 - 10.4.2. Mexico
 - 10.4.3. Rest of Latin America
- 10.5. Middle East & Africa
 - 10.5.1. Saudi Arabia
 - 10.5.2. UAE
 - 10.5.3. South Africa
 - 10.5.4. Rest of Middle East & Africa

CHAPTER 11. COMPETITIVE INTELLIGENCE

- 11.1. Key Company SWOT Analysis
 - 11.1.1. Peraso Technologies Inc.
 - 11.1.2. Qualcomm Technologies, Inc.
 - 11.1.3. Tensorcom, Inc.
- 11.2. Competitive Landscape
- 11.3. Key Strategies

CHAPTER 12. RESEARCH PROCESS

- 12.1. Research Process
 - 12.1.1. Data Mining
 - 12.1.2. Analysis
 - 12.1.3. Market Estimation
 - 12.1.4. Validation
 - 12.1.5. Publishing

- 12.2. Research Attributes
 - 12.2.1. Primary Research
 - 12.2.2. Secondary Research
- 12.3. Research Methodology

12. LIST OF TABLES

- 1. GLOBAL WIRELESS GIGABIT MARKET REVENUE BY REGION (2022–2032)**
- 2. WIRELESS GIGABIT MARKET SHARE BY OFFERING (2022–2032)**
- 3. WIRELESS GIGABIT MARKET REVENUE FORECAST BY PROTOCOL (2022–2032)**
- 4. ANALYSIS OF IOT DEVICE GROWTH TRENDS (2020–2030)**
- 5. SMART CITY INVESTMENTS BY REGION (2022–2032)**
- 6. CHANNEL REVENUE BREAKDOWN BY APPLICATION (2022–2032)**
- 7. KEY INVESTMENTS IN NETWORK INFRASTRUCTURE BY REGION**
- 8. DISPLAY DEVICE MARKET TRENDS IN CONSUMER ELECTRONICS**
- 9. AUTOMOTIVE CONNECTIVITY APPLICATIONS OF WIRELESS GIGABIT BY REGION**
- 10. COMPANY REVENUE SHARE ANALYSIS (2022)**

(This list is indicative and the final report includes 100+ tables.)

12. LIST OF FIGURES

- 1. WIRELESS GIGABIT MARKET SIZE FORECAST (2022–2032)**
- 2. COMPARATIVE ANALYSIS OF PROTOCOLS (IEEE 802.11 AD VS. IEEE 802.11 AY)**
- 3. IOT ADOPTION IMPACT ON WIRELESS GIGABIT MARKET (2022–2032)**

- 4. REGIONAL REVENUE TRENDS (2022–2032)**
- 5. CHANNEL CONTRIBUTION TO WIRELESS GIGABIT REVENUE (2022–2032)**
- 6. SMART CITY CONNECTIVITY GROWTH DRIVERS BY REGION**
- 7. DISPLAY DEVICE MARKET SHARE IN CONSUMER ELECTRONICS**
- 8. COMPETITIVE LANDSCAPE: KEY MARKET PLAYERS**
- 9. INVESTMENT TRENDS IN WIRELESS GIGABIT INFRASTRUCTURE**
- 10. SWOT ANALYSIS OF MAJOR COMPANIES**

(This list is indicative and the final report includes 50+ figures.)

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