

# Utility Communication Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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## Abstracts

The Global Utility Communication Market was valued at USD 18.1 billion in 2024 and is estimated to grow at a CAGR of 4.2% to reach USD 27.4 billion by 2034.

The expansion of this market is driven by government-led initiatives promoting advanced communication technologies such as private LTE/5G networks, fiber optics, RF mesh, and IoT-based telemetry systems. These technologies play a critical role in enabling smarter, more connected utility networks that support renewable integration and grid modernization. As global electrification and clean energy projects accelerate under sustainability agendas across regions, utility communication systems are becoming indispensable for efficient power distribution and monitoring. Policies like the EU's digitalization roadmap and U.S. federal funding programs are channeling significant investments into modern grid communication infrastructure. This includes initiatives such as automated metering, grid automation, and private network deployments that enhance security, scalability, and real-time operational visibility. The ongoing transition toward decentralized power systems, coupled with the integration of distributed energy resources, is creating new communication demands within the utility ecosystem. As smart grids evolve, utilities are increasingly relying on seamless data connectivity to coordinate operations across generation, storage, and consumption points, ensuring grid reliability and efficiency on a global scale.

The wired communication segment is expected to reach USD 15 billion by 2034, attributed to the multiple operational benefits these systems offer. Wired technologies, including fiber optics, Ethernet, and power line communication, form the backbone of critical grid infrastructure. They provide superior bandwidth, low latency, and high resistance to interference, making them essential for real-time control in applications

such as substation automation, SCADA systems, and wide-area grid management. Their robust performance and reliability are key factors driving their sustained demand in utility operations.

The public utility segment is forecasted to grow at a CAGR of 5.5% through 2034. Public utilities hold a pivotal role in the communication landscape due to their responsibility for large-scale power transmission and distribution networks. To maintain efficiency and reliability, these entities rely heavily on advanced communication systems that enable effective grid supervision, automation, and maintenance. The continuous rollout of smart grid technologies, including intelligent substations and advanced metering infrastructure, underscores the growing importance of communication platforms that can handle complex, interconnected power systems at scale.

U.S. Utility Communication Market was valued at USD 3.7 billion in 2024. The United States continues to play a leading role in shaping the market's direction through large-scale adoption of smart grid solutions supported by progressive policies and funding mechanisms. Utilities across the country are investing heavily in both wired and wireless communication networks to enhance grid reliability, support demand response initiatives, and manage distributed energy resources. The U.S. regulatory framework encourages innovation while emphasizing cybersecurity and operational efficiency.

Prominent companies operating in the Global Utility Communication Market include Itron, Inc., Cisco Systems, Schneider Electric, Siemens, Motorola Solutions, Doxim, Hitachi Energy, Honeywell, Ribbon Communications, Utility Communications Inc., Hexagon, Kontron, Zenner International, Hexaware Technologies, and Morcom International. Companies in the Utility Communication Market are employing multiple strategies to solidify their competitive position. Many are focusing on product innovation and integrating next-generation technologies such as IoT, AI-driven analytics, and private 5G networks to improve operational efficiency and connectivity for utilities. Strategic collaborations with utility providers and governments are being pursued to implement smart grid projects and large-scale communication upgrades. Firms are expanding their portfolios through mergers, acquisitions, and R&D investments to strengthen their global presence and technological capabilities. Additionally, emphasis is being placed on developing cybersecurity-enhanced solutions to protect critical infrastructure.

## Contents

### **CHAPTER 1 METHODOLOGY & SCOPE**

- 1.1 Research design
- 1.2 Market estimates & forecast parameters
- 1.3 Forecast calculation
- 1.4 Data sources
  - 1.4.1 Primary
  - 1.4.2 Secondary
    - 1.4.2.1 Paid
    - 1.4.2.2 Public

### **CHAPTER 2 EXECUTIVE SUMMARY**

- 2.1 Industry synopsis, 2021 - 2034

### **CHAPTER 3 INDUSTRY INSIGHTS**

- 3.1 Industry ecosystem analysis
- 3.2 Regulatory landscape
- 3.3 Industry impact forces
  - 3.3.1 Growth drivers
  - 3.3.2 Industry pitfalls & challenges
- 3.4 Growth potential analysis
- 3.5 Porter's analysis
  - 3.5.1 Bargaining power of suppliers
  - 3.5.2 Bargaining power of buyers
  - 3.5.3 Threat of new entrants
  - 3.5.4 Threat of substitutes
- 3.6 PESTEL analysis
  - 3.6.1 Political factors
  - 3.6.2 Economic factors
  - 3.6.3 Social factors
  - 3.6.4 Technological factors
  - 3.6.5 Legal factors
  - 3.6.6 Environmental factors
- 3.7 Emerging opportunities & trends
  - 3.7.1 Digitalization & IoT integration

- 3.7.2 Emerging market penetration
- 3.8 Investment analysis & future outlook

## **CHAPTER 4 COMPETITIVE LANDSCAPE, 2025**

- 4.1 Introduction
- 4.2 Company market share analysis, by Region, 2024
  - 4.2.1 North America
  - 4.2.2 Europe
  - 4.2.3 Asia Pacific
  - 4.2.4 Middle East & Africa
  - 4.2.5 Latin America
- 4.3 Strategic initiatives
- 4.4 Competitive benchmarking depictions
- 4.5 Strategy dashboard
- 4.6 Innovation & technology landscape

## **CHAPTER 5 MARKET SIZE AND FORECAST, BY TECHNOLOGY, 2021 - 2034 (USD MILLION)**

- 5.1 Key trends
- 5.2 Wired
- 5.3 Wireless

## **CHAPTER 6 MARKET SIZE AND FORECAST, BY UTILITY, 2021 - 2034 (USD MILLION)**

- 6.1 Key trends
- 6.2 Public
- 6.3 Private

## **CHAPTER 7 MARKET SIZE AND FORECAST, BY COMPONENT, 2021 - 2034 (USD MILLION)**

- 7.1 Key trends
- 7.2 Hardware
- 7.3 Software

## **CHAPTER 8 MARKET SIZE AND FORECAST, BY APPLICATION, 2021 - 2034 (USD MILLION)**

**MILLION)**

- 8.1 Key trends
- 8.2 Public
- 8.3 Private transmission & distribution
- 8.4 Oil & gas utilities
- 8.5 Others

**CHAPTER 9 MARKET SIZE AND FORECAST, BY REGION, 2021 - 2034 (USD MILLION)**

- 9.1 Key trends
- 9.2 North America
  - 9.2.1 U.S.
  - 9.2.2 Canada
  - 9.2.3 Mexico
- 9.3 Europe
  - 9.3.1 UK
  - 9.3.2 France
  - 9.3.3 Germany
  - 9.3.4 Italy
  - 9.3.5 Russia
  - 9.3.6 Spain
- 9.4 Asia Pacific
  - 9.4.1 China
  - 9.4.2 Australia
  - 9.4.3 India
  - 9.4.4 Japan
  - 9.4.5 South Korea
- 9.5 Middle East & Africa
  - 9.5.1 Saudi Arabia
  - 9.5.2 UAE
  - 9.5.3 Turkey
  - 9.5.4 South Africa
  - 9.5.5 Egypt
- 9.6 Latin America
  - 9.6.1 Brazil
  - 9.6.2 Argentina

## **CHAPTER 10 COMPANY PROFILES**

- 10.1 Cisco System
- 10.2 Doxim
- 10.3 Hexagon
- 10.4 Hexaware Technologies
- 10.5 Hitachi Energy
- 10.6 Honeywell
- 10.7 Itron, Inc.
- 10.8 Kontron
- 10.9 Morcom International
- 10.10 Motorola Solutions
- 10.11 Ribbon Communications
- 10.12 Schneider Electric
- 10.13 Siemens
- 10.14 Utility Communications Inc.
- 10.15 Zenner International

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