

Global Low Power Wide Area Network (LPWAN) Market Size study, by Connectivity Technology (Sigfox, LoRaWAN, Weightless, Others) By Technology Service (Professional Services, Managed Services) By Network Deployment (Private Sector, Public Sector) By Application (Smart Waste Management, Smart Buildings, Smart Gas and Water Metering, Smart Parking, Smart Streetlight, Livestock Monitoring, Others) By Vertical (Agriculture, Smart Logistics and Transportation, Healthcare, Industrial Manufacturing, Oil and Gas, Consumer Electronics, Others) and Regional Analysis, 2022-2029

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Abstracts

Global Low Power Wide Area Network (LPWAN) Market is valued at approximately USD 24.46 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 89.16% over the forecast period 2022-2029. LPWAN technology provides long-range connectivity that allows device mobility across significant geographical regions. In order to attain a link budget of 150 10 dB, LPWAN technology uses modulation techniques, allowing for long-distance connectivity of up to 10 kilometres in rural areas and a few kilometres in urban areas. Because of the sub-1GHz band's utilisation, there is long-distance communication. The majority of LPWANs deliver powerful and dependable communication at low power requirements by using the Sub-GHz band. The market growth is primarily driven by the factors such as surge in adoption of IoT and m2m application, low cost of technology, coupled with the rising demand for long

range connectivity between devices are the prominent factors that are stipulating the market demand across the globe.

In addition, the rising penetration of IoT and M2M applications is further stipulating the market demand across the globe. For instance, in February 2018, the department of telecommunications (DoT) announced that they plan to release a policy document establishing criteria to allow the introduction of machine-to-machine (M2M) communication services in India, which will in turn help the roll-out of the Internet of Things. Moreover, in April 2018, Microsoft declared that the company intends to invest USD 5 billion in IoT in the next four years for supporting research and innovation in the IoT. Accordingly, such investments aid in increasing the adoption of M2M connections, which, in turn, augments market growth. Furthermore, the rising need for connectivity in large enterprises and SMEs, as well as emerging smart cities and smart buildings are presenting various lucrative prospects for market growth over the forecasting period of 2022-2029. However, the lack of government policies impedes the growth of the market over the forecast period.

The key regions considered for the Global Low Power Wide Area Network (LPWAN) Market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. Europe is the leading region across the world in terms of market share owing to the rise in the number of IoT applications and government initiatives for the development of LPWAN standards. Whereas, Asia-Pacific is also anticipated to exhibit the highest growth rate over the forecast period. Factors such as rising IoT applications and efforts taken by government agencies for the development of communications infrastructure coupled with increasing adoption of M2M communication applications would create lucrative growth prospects for the Low power wide area network market across the Asia-Pacific region.

Major market player included in this report are:

Semtech Corporation

Loriot

Nwave Technologies

Sigfox

Waviot

Actility

Ingenu Inc.

Link Labs, Inc.

Weightless SIG

Senet, Inc.

Recent Developments in the Market:

In January 2023, Skyworks and Semtech announced the introduction of SKY66423-SX1261 reference design for low-power wide-area networks (LPWAN) across industrial and smart city applications. The product combines Semtech's LoRa Connect SX1261 transceiver with Skyworks' SKY66423 front-end module (FEM).

Global Low Power Wide Area Network (LPWAN) Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Connectivity Technology, Technology Service, Network Deployment, Application, Vertical, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with a detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Connectivity Technology:

Sigfox

LoRaWAN

Weightless

Others

By Technology Service:

Professional Services

Managed Services

By Network Deployment:

Private Sector

Public Sector

By Application:

Smart Waste Management

Smart Buildings

Smart Gas and Water Metering

Smart Parking

Smart Streetlight

Livestock Monitoring

Others

By Vertical:

Agriculture

Smart Logistics and Transportation

Healthcare

Industrial Manufacturing

Oil and Gas

Consumer Electronics

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

RoLA

Rest of the World

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