

Global LoRaWAN End-Device Communication Module Market Growth 2026-2032

<https://marketpublishers.com/r/G26208B2E8BAEN.html>

Date: October 2026

Pages: 147

Price: US\$ 3,660.00 (Single User License)

ID: G26208B2E8BAEN

Abstracts

The global LoRaWAN End-Device Communication Module market size is predicted to grow from US\$ 184 million in 2025 to US\$ 395 million in 2032; it is expected to grow at a CAGR of 11.3% from 2026 to 2032.

A LoRaWAN end-device communication module is an embedded wireless connectivity component designed for low-power wide-area IoT end devices. It typically integrates a LoRa radio transceiver, a low-power MCU or control core, a LoRaWAN protocol stack, RF matching and filtering circuitry, clocking, power-management functions, an antenna interface and host interfaces such as UART, SPI, I2C and GPIO. The module enables sensors, meters, industrial control nodes, asset trackers, building devices and environmental monitoring terminals to connect to LoRaWAN networks with shorter development cycles and lower RF engineering complexity. Its core value is to reduce OEM design effort in radio integration, protocol-stack implementation, regional certification and low-power optimization while supporting long-range, low-data-rate, low-power and secure bidirectional communication over license-free spectrum. This study focuses on module-level products used as the communication subsystem of end devices, mainly including LoRaWAN modem modules, node communication modules, MCU-plus-RF SiP/SoM products, pre-certified LPWAN modules and embedded modules supporting global or regional LoRaWAN frequency plans.

Based on our research, the LoRaWAN end-device communication module industry should be understood as a module-level connectivity market rather than a pure RF component market. A qualified product normally combines LoRa radio hardware, a low-power control core, a LoRaWAN stack, regional RF design, antenna interface, power optimization and OEM-friendly host interfaces. This is why the market boundary needs to be narrower than the broader LoRaWAN device market. Gateways, network servers,

complete sensors, trackers and pure LoRa transceiver chips are important parts of the ecosystem, but they do not represent the same procurement category as embedded LoRaWAN communication modules. Under this narrow definition, the market size is smaller than broad LoRaWAN hardware or IoT-device markets, yet it more accurately captures the value of the communication subsystem purchased by OEM device manufacturers.

From the demand side, smart metering, utilities, smart city infrastructure, industrial monitoring, smart buildings, asset tracking and agricultural sensing remain the most important growth drivers. The market is supported not only by public LoRaWAN networks, but also by private industrial networks, campus-level deployments, building sensor networks and utility-led projects. LoRaWAN modules benefit from long range, low power, license-free spectrum and relatively low connectivity cost, but they also face substitution pressure from NB-IoT, LTE-M, Wi-SUN, Bluetooth-based mesh systems and other local wireless technologies. We expect the market to remain in a growth phase through 2032, although the growth profile will become more project-driven and segmented by application, certification region and integration level.

LP Information, Inc. (LPI) ' newest research report, the “LoRaWAN End-Device Communication Module Industry Forecast” looks at past sales and reviews total world LoRaWAN End-Device Communication Module sales in 2025, providing a comprehensive analysis by region and market sector of projected LoRaWAN End-Device Communication Module sales for 2026 through 2032. With LoRaWAN End-Device Communication Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world LoRaWAN End-Device Communication Module industry.

This Insight Report provides a comprehensive analysis of the global LoRaWAN End-Device Communication Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on LoRaWAN End-Device Communication Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global LoRaWAN End-Device Communication Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for LoRaWAN End-Device Communication Module and breaks down the forecast by Type, by Application, geography, and market size to

highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global LoRaWAN End-Device Communication Module.

This report presents a comprehensive overview, market shares, and growth opportunities of LoRaWAN End-Device Communication Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

LoRaWAN Modem Module

LoRaWAN MCU Module

Other LoRaWAN Module

Segmentation by LoRaWAN Device Class:

Class A Module

Class B Module

Class C Module

Other

Segmentation by Frequency Band Support:

Single-band Module

Dual-band Module

Multi-band Module

Other

Segmentation by Power Design:

Ultra-low-power Module

Low-power Module

Performance-oriented Module

Other

Segmentation by Application:

Metering Communication Module

Sensing Communication Module

Tracking Communication Module

Control Communication Module

Alarm Communication Module

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

STMicroelectronics International N.V.

Murata Manufacturing Co., Ltd.

Microchip Technology Inc.

Digi International Inc.

Quectel Wireless Solutions Co., Ltd.

Multi-Tech Systems, Inc.

Ezurio LLC

W?rth Elektronik eiSos GmbH & Co. KG

RAKwireless Technology Ltd.

Lierda Science & Technology Group Co., Ltd.

Seeed Technology Co., Ltd.

Chengdu Ebyte Electronic Technology Co., Ltd.

Dragino Technology Co., Ltd.

AcSiP Technology Corp.

GlobalSat WorldCom Corp.

SparkLAN Communications, Inc.

REYAX Technology Co., Ltd.

MOKO SMART

Miromico AG

Embit s.r.l.

RisingHF

Shenzhen Ai-Thinker Technology Co., Ltd.

Heltec Automation

DFRobot

Key Questions Addressed in this Report

What is the 10-year outlook for the global LoRaWAN End-Device Communication Module market?

What factors are driving LoRaWAN End-Device Communication Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do LoRaWAN End-Device Communication Module market opportunities vary by end market size?

How does LoRaWAN End-Device Communication Module break out by Type, by Application?

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