Lithuanian Smart Micro-Module Ranking

Overview

Lithuanian optoelectronics industry generated 210 mil. in 2022, with steady growth for a decade. Almost half of the 2022 revenue comes from Light Conversion and Ekspla.

Key Takeaways

Lithuania is emerging as a niche player in smart micro-module and IoT technologies, supported by strong 5G coverage and a growing edge computing ecosystem, though no formal global ranking exists. Lithuania's Digital and Smart Module EcosystemLithuania has achieved near-universal 5G coverage, positioning itself as a regional leader in mobile connectivity, which is a critical enabler for smart micro-modules and IoT applications. The country has an estimated 10 edge nodes and 3 unicorns in the tech sector as of 2024, reflecting early-stage adoption of advanced digital infrastructure.

While Lithuania is actively investing in semiconductor and quantum-related technologies, its fixed Very High-Capacity Network (VHCN) deployment, particularly in rural areas, still requires targeted public investment to fully support widespread smart module deployment.

Smart Micro-

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Modules and IoT ContextSmart micro-modules, often embedded in IoT devices, integrate communication capabilities (5G/4G/3G/2G), computing power (CPU/GPU), and peripheral interfaces such as sensors, cameras, and NFC modules. These modules are widely used in industries like logistics, transportation, banking, and law enforcement, enabling local data processing, image recognition, and secure communications. Globally, the smart IoT module market is growing rapidly, with billions of connected devices and increasing adoption of 5G-enabled modules.

Lithuanian Position in the Global ContextWhile Lithuania does not appear in global smart module shipment rankings, the country leverages its strong laser and semiconductor industries to position itself as a niche player in advanced technologies. Its start-up ecosystem and government-backed digital initiatives, including funding for SMEs and cybersecurity programs, support the development and deployment of smart micro-modules. Compared to global leaders in IoT modules, such as Quectel, Telit, and Tibbo Technology, Lithuania's contribution is currently smaller but strategically focused on high-value, specialized applications.

Key Takeaways

Lithuania is well-positioned regionally for smart micro-module adoption due to 5G coverage and edge computing nodes. The country is investing in semiconductor and quantum technologies, which can support future smart module development. No formal global ranking exists for Lithuanian smart micro-modules, but the ecosystem is growing, particularly in niche and high-tech applications.

Continued investment in VHCN deployment, SME digitalization, and cybersecurity will be crucial to strengthen Lithuania's position in the smart module market. In summary, Lithuania is an emerging player in the smart micro-module sector, with strong digital infrastructure and targeted investments, but it has not yet achieved a measurable global ranking.

Article Content

Breakthrough in Lithuania''s Electronics Industry

Lithuanian optoelectronics industry generated 210 mil. in 2022, with steady growth for a decade. Almost half of the 2022 revenue comes from Light Conversion and Ekspla. Industry has promising startups

Lithuania Computer on Module Market | Growth & Analysis 2032

Lithuania Computer on Module Market analyzes pricing trends and cost structures, providing insights into competitive dynamics and market opportunities.

Lithuania Smart Microgrid Market (2026-2032) | Trends, Outlook

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6Wresearch actively monitors the Lithuania Smart Microgrid Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers, revenue analysis, and forecast outlook.

Lithuania 2025 Digital Decade Country Report

According to the special Eurobarometer on the Digital Decade 2025, 77% of Lithuanian citizens consider that the digitalisation of public and private services is making their lives easier.

Semiconductors

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European countries compete for the semiconductor industry: Lithuania ...

According to the Ministry of Economy and Innovation (EIMIN), the semiconductor industry is also considered a strategic direction in Lithuania not only due to its economic importance, but also

Lithuania

It is based on the most recent available data: Indicators 1 to 10 reflect the status of national policies that support innovation procurement at the end of 2023. The part of indicator 10 that uses data from the

Manufacturing Sector Report

In 2020, 40% of companies leveraged the diverse competences o ered in Lithuania and continued expanding their presence across multiple operations. We see this as a solid achievement and a large

A small country with high ambitions

Association Lithuanian Laser Association The association was established in 2004, bring-ing together academic institutions and compa-nies to road-mapping their activities in the field of

Lithuania pursues semiconductor partnership with Taiwan as Europe

Tech firm Teltonika aims to achieve domestic production capabilities by 2027 by working with Taiwan''s Industrial Technology Research Institute.

Lithuania Among the Top 35 Strongest Countries in the Global

Lithuania continues to shine as a global innovation leader, securing a spot among the top 35 countries in the Global Innovation Index (GII) for the second consecutive year. Despite significant

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The subject of this article is Lithuania''s Social Capital for the smart and sustainable development. The goal of the paper is to analyze how Lithuania''s social policy encourages socio

(PDF) Valuation of Lithuanian Cities'' Smartness

Research purpose. To assess the level of smartness of Lithuanian cities. The article systematizes the theoretical background of a smart city and its criteria, develops the methodology for ...

Lithuania ranks among the top open data trendsetters and is 7th in ...

This year, Lithuania is in the Trendsetters group, which is the highest scoring group of countries. Last year, Lithuania moved up six places in the survey, ranking 7th out of 35 countries.

Lithuania-Taiwan Cooperation: Macro Ambitions for

Lithuania has been developing its smart image, with a track record of producing some of the world''s most powerful laser systems. Lithuanian-made

Lithuania Ranking in the Global Innovation Index 2025.

The trend line gives an indication of the expected innovation performance according to income level. Economies appearing above the trend line are performing better than expected and those below are

Lithuania 2024 Digital Decade Country Report

Country-Specific Recommendations Lithuania must improve its performance towards the Digital Decade targets and objectives, to foster competitiveness, resilience, sovereignty, and

Smart Specialisation

Lithuania is a Moderate Innovator Smart specialisation priority areas:1. Agriculture, forestry & fishing2. Energy production & distribution3. Human health & social work activities4. Social

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