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Global Thin-Film Lithium Niobate Photonic Integrated Circuit Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G200A15DA583EN.html
Date: November 2026
Pages: 105
Price: US$ 4,480.00 (Single User License)
ID: G200A15DA583EN

Abstracts

The global Thin-Film Lithium Niobate Photonic Integrated Circuit market size is expected to reach $ 297 million by 2032, rising at a market growth of 38.1% CAGR during the forecast period (2026-2032).

In 2025, global sales of Thin-Film Lithium Niobate Photonic Integrated Circuits were approximately 50,000 units, with an average selling price of about US$600 per unit at the manufacturer level. The gross margin of major manufacturers was approximately 45%–55%.

Thin-Film Lithium Niobate Photonic Integrated Circuit (TFLN PIC) is a class of integrated photonic chip based on thin-film lithium niobate (TFLN/LNOI) as the core optical material platform. Through micro- and nanofabrication processes, optical waveguides, electrodes, splitters, couplers, modulation units, resonant structures, and other photonic functional elements are integrated onto a single chip. By leveraging the strong linear electro-optic effect, broad optical transparency window, and favorable nonlinear optical properties of lithium niobate, TFLN PICs can enable high-speed electro-optic modulation, phase control, optical switching, wavelength conversion, and quantum photonic processing. Compared with conventional bulk lithium niobate devices, the thin-film lithium niobate platform offers smaller device dimensions, lower driving voltage, higher modulation bandwidth, and greater suitability for multi-channel and high-density photonic integration.

The upstream supply chain of Thin-Film Lithium Niobate Photonic Integrated Circuits mainly includes LNOI wafers, metal electrode materials, photoresists, dielectric materials, as well as equipment for lithography, etching, thin-film deposition, bonding,

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and wafer testing. Thin-film thickness uniformity, wafer defect density, waveguide etching accuracy, and electrode fabrication processes directly affect insertion loss, modulation efficiency, bandwidth, and manufacturing yield. Downstream applications mainly include data communications, telecommunications, coherent optical communications, microwave photonics, quantum photonics, LiDAR, and precision optical sensing. TFLN PICs can be further integrated into high-speed optical transceivers, coherent optical modules, optical engines, and other optoelectronic systems.

Report Scope

This report studies the global Thin-Film Lithium Niobate Photonic Integrated Circuit production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thin-Film Lithium Niobate Photonic Integrated Circuit and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Thin-Film Lithium Niobate Photonic Integrated Circuit that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thin-Film Lithium Niobate Photonic Integrated Circuit total production and demand, 2021-2032, (Units)

Global Thin-Film Lithium Niobate Photonic Integrated Circuit total production value, 2021-2032, (USD Million)

Global Thin-Film Lithium Niobate Photonic Integrated Circuit production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Thin-Film Lithium Niobate Photonic Integrated Circuit consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Thin-Film Lithium Niobate Photonic Integrated Circuit domestic

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production, consumption, key domestic manufacturers and share

Global Thin-Film Lithium Niobate Photonic Integrated Circuit production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Thin-Film Lithium Niobate Photonic Integrated Circuit production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Thin-Film Lithium Niobate Photonic Integrated Circuit production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Thin-Film Lithium Niobate Photonic Integrated Circuit market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include HyperLight, Furukawa FITEL Optical Components, CCRAFT, Quantum Computing, Luxtelligence, Lightium, Liobate Technologies, Advanced Fiber Resources (Zhuhai), Ningbo Ori-Chip Optoelectronics Technology, TuringQ, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Thin-Film Lithium Niobate Photonic Integrated Circuit market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Thin-Film Lithium Niobate Photonic Integrated Circuit Market,

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By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Thin-Film Lithium Niobate Photonic Integrated Circuit Market, Segmentation by Type:

Electro-Optic Modulation

Optical Switching

Nonlinear Photonics

Quantum Photonics

Global Thin-Film Lithium Niobate Photonic Integrated Circuit Market, Segmentation by Wavelength Band:

O-band

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C-band

L-band

Global Thin-Film Lithium Niobate Photonic Integrated Circuit Market, Segmentation by Channel Count:

Single-channel

2–4 Channels

?8 Channels

Global Thin-Film Lithium Niobate Photonic Integrated Circuit Market, Segmentation by Application:

Data Communication

Telecommunication

Quantum Photonics

Microwave Photonics

LiDAR and Optical Sensing

Other

Companies Profiled:

HyperLight

Furukawa FITEL Optical Components

CCRAFT

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Quantum Computing

Luxtelligence

Lightium

Liobate Technologies

Advanced Fiber Resources (Zhuhai)

Ningbo Ori-Chip Optoelectronics Technology

TuringQ

Key Questions Answered

1. How big is the global Thin-Film Lithium Niobate Photonic Integrated Circuit market?
2. What is the demand of the global Thin-Film Lithium Niobate Photonic Integrated Circuit market?
3. What is the year over year growth of the global Thin-Film Lithium Niobate Photonic Integrated Circuit market?
4. What is the total value of the global Thin-Film Lithium Niobate Photonic Integrated Circuit market?
5. Who are the Major Players in the global Thin-Film Lithium Niobate Photonic Integrated Circuit market?
6. What are the growth factors driving the market demand?

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