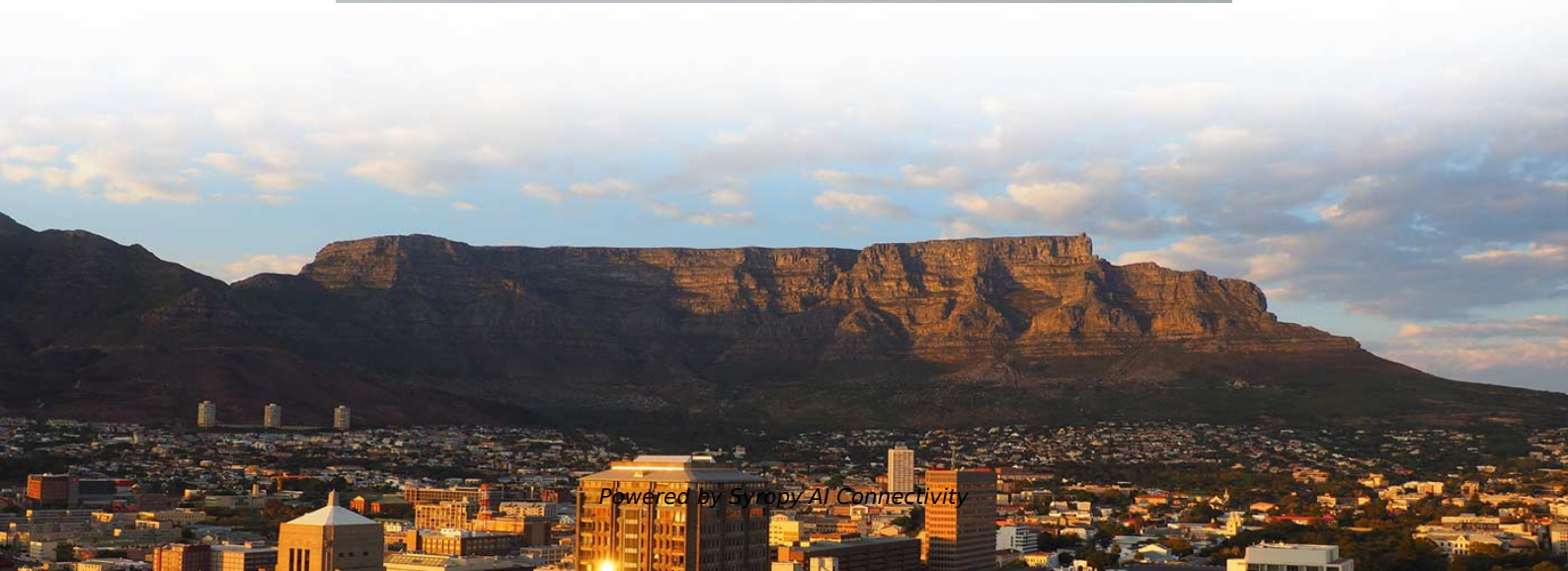


Quantum Optical Module Manufacturers



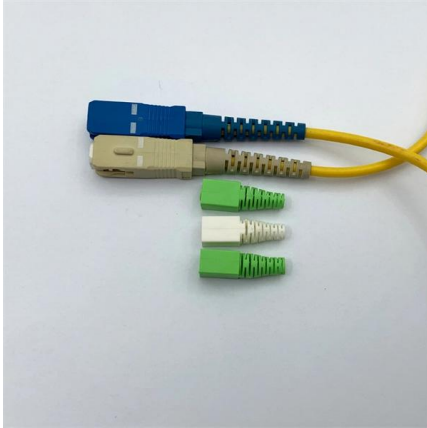


Overview

A global group of companies including PsiQuantum, Xanadu, and Quandela are advancing distinct photonic strategies spanning silicon photonics, squeezed light, and single-photon systems. Key technical barriers remain around photon loss, deterministic generation, and scalable error correction, with. Trusted by over 70 navies and armies worldwide, Exail delivers cutting-edge naval and land defense solutions, from navigation and robotics solutions to stand-off mine countermeasures systems, ensuring reliability and safety in the toughest environments. PsiQuantum's wafers are now built by the thousands, at the highest possible level of technical maturity — in a high-volume, commercial semiconductor foundry. The number of venture-backed optical component startups has exploded - the Optical Component Start-Up Tracker identifies these companies and their value propositions. ANT Native Processing Server NPS, the first commercial photonic processor, sets a new era going beyond traditional computing.



Quantum Optical Module Manufacturers



Yole Group

What we do Yole Group provides market research, technology and strategy analysis, reverse engineering and costing, and photonics module performance evaluation,

Optical Component Startup Tracker

The number of venture-backed optical component startups has exploded - the Optical Component Start-Up Tracker identifies these companies



Marvell Technology, Inc. , Essential technology, done right

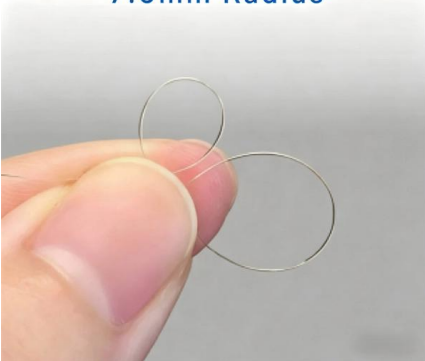
Designed for your current needs and future ambitions, Marvell delivers the data infrastructure technology transforming tomorrow's enterprise,

The Future is Unmanned

The software backbone that connects all our autonomous systems across domains, enabling integrated operations, data fusion, and mission control. Quantum



7.5mm Radius



Quantum

Trusted by companies worldwide, our offerings span mining, tunneling, mobile mapping, and rail applications, delivering precision and reliability for a wide range

Quantum Computing Inc

Freedom Photonics Freedom Photonics is a leader in design, development and manufacturing of unique and innovative photonics components, modules and



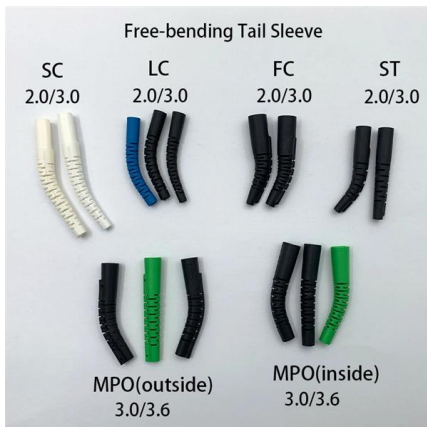
Photon Avalanche Diodes for Secure Data Encoding in Quantum

Photon Avalanche Diodes (PADs) represent a critical evolution in single-photon detection technology, emerging from decades of semiconductor physics research and quantum optics



Top 10 Optical module manufacturers in the World 2025

Are you curious about which optical module manufacturers stand out in today's competitive market? Understanding the top factories is crucial for making



EM4 - Reliable High-Performance Photonics

EM4 has been acquired by Quantum Computing Inc. Learn more >> EM4 is a world leader in high-performance optical components, modules, and subassemblies, and has a long heritage as a

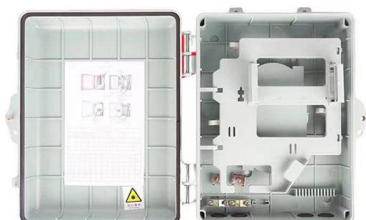
UK Photonics & Quantum Directory

Listing all the companies, universities and research organisations that make up the UK photonics and quantum industries.



Top Companies in Quantum Optics (Apr, 2026)

Globally there are 408 Quantum Optics companies which include top companies like PsiQuantum, Hesai Technology and Quanergy Com.





A manufacturable platform for photonic quantum computing

Since the earliest proposals for fault-tolerant optical quantum computers²⁻⁶, it has been clear that a very large number of photonic components would be required for any useful system^{9,10}.



Innolume and Genuine Optics Announce Strategic

Quantum Dot Technology to Reduce Power Consumption and Increase Operating Temperature Innolume GmbH (Germany) a pioneer in

Overview of 11 Photonic Quantum Computing

We've organized a list of the top photonics companies as of 2026. Read on to learn more about the state of the photonics industry.



Miniaturized optical isolators for next-generation quantum photonic

As quantum technologies transition from laboratory environments to real-world applications, there is an increasing demand for photonic systems that are compact, robust and



Latest Ranking of Top 10 Global Optical Module Suppliers

Recently, LightCounting, a well-known market research organization in the optical communication industry, released the latest issue of its market report and updated the TOP10 ranking of global

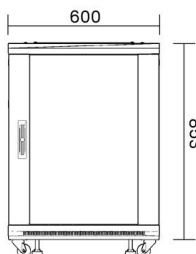


Omega -- PsiQuantum

PsiQuantum built the biggest molecular beam epitaxy tool in the world and successfully delivered a 300mm manufacturing process for optical switches based on Barium Titanate (BTO) -- the "holy

EM4 - Reliable High-Performance Photonics

EM4 has earned a reputation as a trusted supplier for top aerospace and defense contractors worldwide, thanks to our expertise in delivering high-performance optical components, modules, and



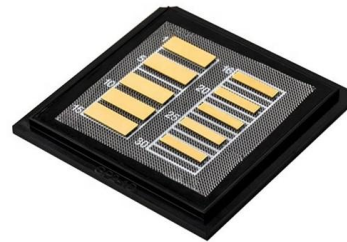
Introducing Omega

Today, PsiQuantum is announcing Omega, a manufacturable chipset for photonic quantum computing. Our manuscript, published in Nature, shares



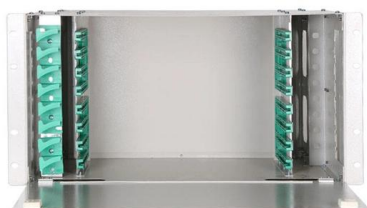
Q.ANT - Photonic Computing for efficient AI and HPC

The current landscape of AI hardware production is centralized in few regions and dominated by a small number of companies. Q.ANT's photonic chips can be



Quantum Devices, Inc.

Quantum Devices manufactures and supplies high quality, high performance incremental optical rotary encoders in the USA for many industries & applications.



Microsoft - AI, Cloud, Productivity, Computing, Gaming

Explore Microsoft products and services and support for your home or business. Shop Microsoft 365, Copilot, Teams, Xbox, Windows, Azure, Surface and more.



Semiconductor laser fab , Innolume

At Innolume, we specialize in GaAs Quantum Well and Quantum Dot diode lasers, leveraging our expertise across a wide array of devices.



Top Quantum Hardware Companies 2026 By Modality

Top quantum hardware companies in 2026 split across six modalities: superconducting, trapped-ion, neutral-atom, photonic, silicon-spin, and a handful of specialty platforms (topological, cat



Innolume GmbH and Genuine Optics Announce Strategic Partnership

ECOC 2025 - [Copenhagen, September 28] - [Innolume GmbH a pioneer in Quantum Dot (QD) laser technology, and Genuine Optics (US), a top global Optics supplier, today signed a Memorandum of

indie Photonics Solutions for Quantum Technologies

indie Photonics' optical components and subsystems that empower next-generation quantum technologies, specifically quantum computing and Quantum Key Distribution (QKD).



Contact Us

For datasheets, pricing, or custom high-speed optical interconnect solutions, please visit:

<https://www.syropy.com.pl>