



**Adam Tas Corridor Energy**

# **Current Situation of Shortage of Optical Module Components**





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### Global optical module sales reach \$4.25 billion in H1 2022

According to the latest statistics from LightCounting, the global optical module market size reached USD 2.016/2.235 billion in Q1 and Q2 2022, respectively the first half of 2022, the

### Root Cause Analysis of Global Semiconductor Shortage: A

This paper introduces a comprehensive Root Cause Analysis (RCA) framework designed to identify and address the underlying factors contributing to this shortage.



### Optical Module Chip Market 2025

With internet traffic projected to triple by 2026, network operators are aggressively upgrading infrastructure to support 400G and 800G optical modules. These high-performance modules rely on

### The Global Semiconductor Chip Shortage: Causes, Implications, and

The covid pandemic is not only to blame for this



shortage, for instance the semiconductor supply chain contained already many vulnerabilities and weak points that were merely exasperated



### Chip shortage: how the semiconductor industry is

Semiconductor chip shortage is a real problem. Faced with surging demand, semiconductor companies might adopt new strategies to increase chip

### 2025 Update: Electronic Component Shortages

Electronic component shortages are still disrupting supply chains in 2025. See what's fueling delays and how to adapt your sourcing strategy.



### 2026 Semiconductor Industry Outlook , Deloitte Insights

For leadership, the 2026 mandate moves beyond simply capturing AI demand to managing the systemic risks of a high-margin, low-volume paradigm, where



## **PwC\_Semiconductor and Beyond\_2026**

At PwC, we have worked alongside semiconductor leaders through multiple industry shifts, helping clients adapt to evolving market conditions, enhance supply chains and drive long-term sustainable



## **Optical component shortage will bottleneck AI datacenter buildout**

Lumentum is undershipping customer demand for optical components by approximately 30%, creating a supply bottleneck that threatens AI infrastructure expansion timelines through 2027.

## **LightCounting :: February 2025 Component shortages**

Chinese optical module manufacturers will report Q4 results together with the full year results in April, but several of them have already released very high net



## **High demand and shortage of materials-Are fiber optic**

The prices of fiber optics have skyrocketed since 2019 due to great demand and shortages in materials. Among the affected territories, Europe, India,

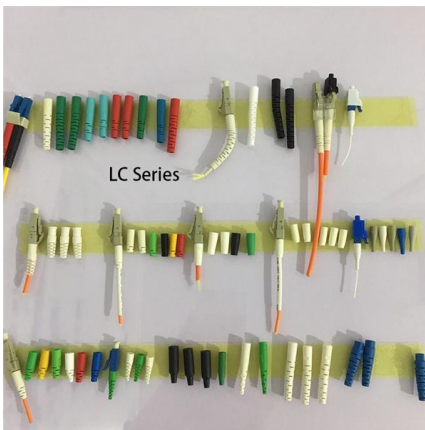


## The Global Memory Chip Shortage: DRAM, DDR4,

The memory shortage has ripple effects far beyond individual chip makers: Escalating prices: Costs for DRAM memory, DDR4 memory, NAND flash

Ordering information

NO.	1	2	3	4	5	6
Model	SP1201	SP1202	SP1204	SP1201	SP1202	SP1204
Product name	Patch Panel	Patch Panel	Patch Panel	Patch Panel	Patch Panel	Patch Panel
Illustration						
HU	1	2	4	1	2	4
Maximum number of cores	144	288	576	144	288	576
Product size (including module and adapter)	402.87(31.734 inch)	402.87(31.788 inch)	402.87(31.717 inch)	402.87(31.744 inch)	402.87(31.786 inch)	402.87(31.717 inch)
Standard color code	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005



## Optical Module: A Comprehensive Analysis from Source

Optical modules are key transmission components in communication networks, and their applications, technologies, types, and terminology are

## Optical Components Market Outlook 2026-2035 , Size & CAGR

In early 2020, manufacturing facility shutdowns and logistical regulations specifically in key manufacturing hubs such as Wuhan caused full-size delays in manufacturing and transportation



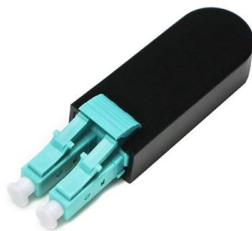


## The semiconductor shortage is - mostly - over for the

Although the semiconductor crisis is largely resolved, the chip supply situation still carries a degree of uncertainty. Demand still exceeds supply of

## Optical Lab Equipment Manufacturers Meet Chip Shortage Head On

Microchips may be tiny, but they've having a huge impact worldwide, as every industry scrambles to deal with a global chip shortage. Already in short supply before COVID-19, the



## Global shortage of fiber-optic cable threatens digital growth

Global shortage of fiber-optic cable threatens digital growth Rising prices of components cast shadow over 5G rollout and development of data centers.

## Navigating the Semiconductor Shortage: Proven Component

From understanding the root causes of the crisis to implementing effective component sourcing strategies, we'll equip you with actionable insights to tackle long lead time components and



## 2020-2023 global chip shortage

Between 2020 and 2023, there was a worldwide chip shortage affecting more than 169 industries, which led to major price increases, long queues, and reselling among consumers and manufacturers

- ✓ Slow Axis Aligned (0°) - for standard sensing applications
- ✓ Fast Axis Aligned (90°) - for special modulation applications
- ✓ 45° Axis Aligned - for depolarizer applications



## CPU Shortage Deepens, Optical Module Value Restructuring

In traditional data center interconnect (DCI) systems, optical modules held ~30% of total system value. That structure is reversing in 2026 -- optical module value share is climbing toward



## Gaming

Find in-depth gaming news and hands-on reviews of the latest video games, video consoles, and accessories.



## Optical Module Shortage Survival Plan: Lead-Time Tactics

Learn how one data center overcame optical module shortage with a 10G/25G mix plan, lead-time buffers, DOM checks, and measurable uptime gains.



## in the Current Fiber Broadband Supply Chain UPDATE

There are also more formal training programs as well. To address the workforce tech shortage in the industry, the Fiber Broadband Association has developed a fiber optic technician training program

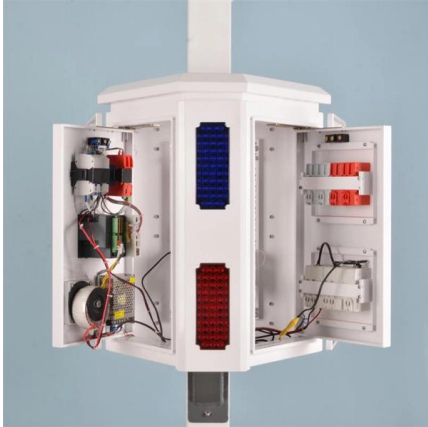
## Electronic Component Shortage 2025: Outlook

Electronic component shortages in 2025 continue to challenge supply chains. Explore key strategies to secure components, reduce delays, and stay



## McKinsey Direct Opportunities in networking optics

Networking optics are mission-critical components in advancing AI and data center infrastructure build-outs. To move the massive amounts of data required for AI training and inferencing, hyperscalers



### **The Semiconductor Crisis: Addressing Chip Shortages**

As the global reliance on semiconductor chips continues to expand, addressing both supply chain vulnerabilities and security risks remains paramount.



### **The shortage of chips continues to affect the optical**

The mainstream large-scale optical module manufacturers, after all, have planned in advance in terms of inventory and delivery cycle, and will

### **How to deal with electronic components supply**

In this article, we discussed the global electronic component supply shortage crisis and its impacts on the electronics manufacturing industry. We explored the





## LightCounting :: Component shortages limit growth in

Demand for optical connectivity remains strong, but component shortages hobbled growth in sales of optical transceivers in Q4 2024. The first half of 2025 will be



## Lumentum Undersupplies Optical Components by 30% as AI

Lumentum is shipping 30% below customer demand for EML optical networking components, with all production capacity locked in long-term agreements through 2027. The



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