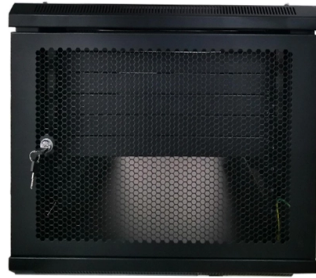


Optical module products decrease in price every year



Article Overview

The average selling price of optical modules has been decreasing over the past several years, driven by technological advancements, increased production scale, and market competition.

Price Decline Overview

Optical modules, which convert electrical signals to optical signals for high-speed data transmission, have seen significant price reductions. For example, 100G optical modules have experienced a roughly 70% price drop over the past five years due to cost optimization and efficiency improvements in manufacturing processes . Similarly, the 400G segment saw a 12% decrease in average selling prices in 2023 as competition intensified with over 20 manufacturers entering the market .

Factors Driving Price Reductions

- **Technological Advancements:** Innovations in silicon photonics and indium phosphide (InP) components have enabled higher integration, lower power consumption, and smaller footprints, reducing production costs per module .
- **Economies of Scale:** The global production capacity for high-speed modules, such as 400G, has expanded rapidly—from 2.3 million units in 2021 to an expected 10 million units by 2024—allowing manufacturers to lower unit costs .
- **Market Competition:** The entry of multiple vendors, particularly Chinese manufacturers with efficient local supply chains, has intensified price competition, especially in the 400G and 800G segments

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