

Price of Outdoor Optical Distribution Boxes in Asia



Overview

Worldwide Optical Cable Distribution Box Market 2026 The Outdoor Optical Distribution Box led the market in 2025, generating USD 1,267.06 Million and repre.

Key Takeaways

Outdoor optical distribution boxes in Asia typically range from USD 20 to USD 200 per unit, depending on material, capacity, and customization, with wholesale orders offering lower per-unit costs.

Market Overview

The Asia-

Pacific region dominates the outdoor optical distribution box market, driven by large-scale fiber deployments in China, India, Japan, and Southeast Asia, particularly for FTTH and 5G networks. The global market for outdoor fiber optic distribution boxes was valued at USD 9. 29 billion in 2025, with Asia contributing a significant share, and is projected to grow at a CAGR of 13.

32% through 2034 due to rising demand for high-speed connectivity and government digital infrastructure investments.



Price Ranges

Retail and small-scale purchases: Individual units of outdoor optical distribution boxes in Asia are generally priced between USD 20 and USD 200, depending on the number of fiber cores, material (plastic or metal), and IP rating for environmental protection. Wholesale and bulk orders: Prices per unit decrease significantly with larger orders, especially when purchasing directly from manufacturers in China or India. Customization options such as OEM branding, modular designs, and enhanced sealing can increase unit costs.

Material and specification impact: Plastic enclosures are typically at the lower end of the price spectrum, while metal or IP68-rated boxes with advanced heat dissipation and modular features are at the higher end.

Factors Affecting Pricing

Material costs: High-grade polycarbonate, stainless steel, and corrosion-resistant coatings influence the base price. Capacity and fiber cores: Boxes supporting more fiber connections or pre-connectorized solutions cost more due to higher complexity and installation efficiency.

Customization and OE

M services: Custom layouts, logo embossing, and cable entry modifications increase unit prices but are common for large telecom operators. Supply chain and logistics: Stable supply chains in Asia have improved availability, but shipping and import duties can affect final costs for regional buyers.

Practical Considerations

For residential FTTH deployments, smaller 4-16 core boxes are common and cost less, often under USD 50 per unit in bulk. For commercial or high-capacity networks, larger modular boxes with IP68 ratings and advanced features can exceed USD 150-200 per unit. Buyers should consider long-term durability, environmental resistance, and installation efficiency when evaluating cost versus value.

In summary, prices vary widely based on capacity, material, and customization, with Asia offering competitive rates due to large-scale manufacturing and ongoing fiber network expansion. Bulk procurement and direct factory sourcing are the most cost-effective strategies for telecom operators and distributors.

Article Content

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