

## Precision die casting of optical modules



### Overview

Precision die-casting is widely used in optical module housing to provide necessary structural integrity for sensitive optical components. Manufactured via high-pressure die casting + CNC machining from premium aluminum alloy, it delivers exceptional thermal. At Aoke, we specialize in producing high-quality die castings that ensure superior performance, reliability, and longevity for optical communication equipment across industries. Our processes ensure that each part meets high standards, providing quality and consistency at an affordable price. High-volume precision die casting: aluminum/zinc/magnesium/copper. Focus on controlling the dimensional accuracy of key.

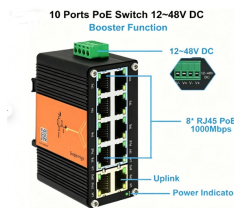
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As an SFP optical module housing industry benchmark, our zinc alloy die-casting technology ensures efficiency and precision for demanding communication equipment.



Our housings are integrally die-cast from aluminum alloy. Focus on controlling the dimensional accuracy of key mating interfaces and the flatness of contact surfaces, and structurally ensure the connection ...



Elimold offers high-precision optical die casting services capable of producing challenging, complex micro or small functional parts. We offer a wide selection of advanced machines capable of 250 to ...



Once the mold is formed, we will first manufacture die cast optical parts samples to verify that there are no errors. Any issues can be promptly identified and resolved, ensuring the production of products ...



The precision die casting process also ensures excellent dimensional stability and surface finish for the SFP housing. This is crucial for maintaining the optical performance of the ...



Case studies have demonstrated the successful application of die casting in producing high-quality optical module housing, underlining its effectiveness and reliability in this specialized field.



**How Tight Tolerances in Die Casting Support Optical Alignment Requirements** In high-speed optical modules, alignment is not just mechanical. □□ It directly affects optical coupling efficiency and ...



Optical module die castings are created through a high-pressure metal casting process that injects molten metal into precision molds. This results in components with tight dimensional tolerances, ...



XY-Global excels in high-precision CNC machining, aluminum and zinc die casting, and manufacturing solutions for diverse industries with a focus on quality.



Custom precision die-cast aluminum housings designed for high-speed optical modules, featuring integrated heat sink fins, EMI shielding structure, and standard form factor mounting interface. They ...

## Contact Us

For more information, pricing, or custom solutions, please contact us:

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