

## Cob High-Speed Optical Module Laboratory



### Overview

In this study, we demonstrate chip-on-board (COB) packaged 4 channel  $\lambda = 25$  Gbps (100 Gbps) optical receiver (Rx) module using Ge photodetector (PD). The Ge PDs are fabricated at a commercial foundry.



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We build optical modules end-to-end, combining advanced component packaging with silicon photonics. Our R& D integrates DSPs, LDs, driver ICs, and SiPh in CPO modules targeting ...



We demonstrate chip-on-board (COB) packaged optical module operating at data rate of 25 Gb/s based on silicon photonic integrated circuits (Si-PIC). Electrical loss and packaging criteria ...



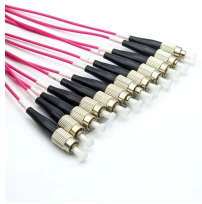
For COB packaging technology, this article introduces the advantages and disadvantages of COB and the development of optical module packaging.



As technology rapidly evolves and the demand for high-speed data transmission increases, understanding the distinct packaging technologies—Chip-on-Board (COB) and ...



ETERN Optoelectronics masters the core optical device packaging technology, has coaxial device, COB, COC high-speed optical device process platform, has a complete optical module product ...



Coupling a common passive and active coupling, the coupling is the active power on the pcb, to determine the position of the lens optical power of each channel according to transmission; passive ...



Analyzes the requirements of optical transceivers and discusses packaging methods and optical chip types to understand their design and manufacturing process.



The optics module uses COB technology to mount photodiodes directly to the circuit board. The COB technology enables the photodiodes to be mounted with high accuracy and the photodiode packages ...



Moduletek operates its own die bonding, wire bonding, and automatic coupling production lines, and can supply a wide range of optical module products manufactured with the ...

## Contact Us

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