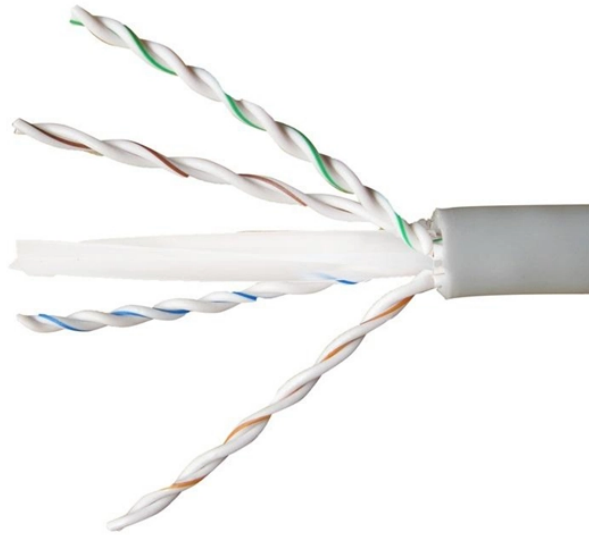


OEM Silicon Photonics Technology NRZ



OEM Silicon Photonics Technology NRZ



We present active components developed in imec's silicon photonics platform that enable 50-Gb/s non-return-to-zero operation using CMOS compatible voltages.



PAM-4 acceptable for long links, but NRZ modulation preferred for short, latency sensitive links At 50Gb/s channel speed, Wavelength Division Multiplexing is essential for module scaling



We report on hybrid BiCMOS-Silicon photonics receivers with waveguide coupled Ge/Si avalanche photodiodes, designed in a lateral separate charge absorption multiplication configuration.



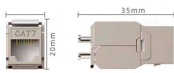
Hyper Photonix offers a comprehensive range of high-performance NRZ and PAM4 optical transceivers designed to serve the varying speed requirements within the bandwidth-intensive landscape of ...



Abstract We present active components developed in imec's silicon photonics platform that enable 50 Gb/s non-return-to-zero (NRZ) operation using CMOS compatible voltages.



Abstract We demonstrate a low-power (1 pJ/bit), C-band 4x56 Gbit/s NRZ optical receiver constructed from a 28nm CMOS transimpedance amplifier and a Silicon PIC containing a Ge photodetector array.



We present 1-to-8 wavelength (de-)multiplexer devices based on a binary tree of cascaded Mach-Zehnder-like lattice filters, and manufactured using a 90 nm CMOS-integrated silicon photonics...



In the presented work, a differential FinFET driver was co-designed with a silicon photonics ring modulator, achieving a 40Gb/s NRZ optical modulation at 154fJ/bit dynamic power ...



Summary WDM NRZ CMOS-integrated single-chip TRX solution is considered Presented considerations on cost reductions looks promising Rigorous RCA analysis is required Feasibility requires further ...

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