

Barbados Optical Receiver Silicon Photonics Available Now

Here, we report the implementation of a real local oscillator continuous-variable quantum key distribution system with an integrated silicon ...

ST's silicon photonics technology brings customers the ability to integrate multiple complex components into one single chip. ST's BiCMOS technology provides exceptional cutoff frequency and gain for ...

The chip, integrated using GlobalFoundries 45CLO CMOS-photonic process, can be used for implementation of energy-efficient high data-rate optical links for AI applications.

This paper aims to provide an objective review of the advances made within the realm of graphene-integrated Si photonics for high-speed light modulation and detection.

Acacia is widely recognized as a pioneer of silicon-based PICs for coherent optical communications--the highly integrated Silicon Photonics single-chip PICs are low power and ultra ...

In this paper, we review some of the recent advances in high performance optical waveguide grating couplers (WGC) as a key enabling technology for future high capacity communications.

In this paper, monolithically integrated silicon photonic transmitter and receiver with an ultra-high-capacity density of 37.0 Tbps/cm² were proposed and demonstrated by introducing hybrid ...

Standard transmitter and receiver modules are available for operation up to 50 GHz. Customized solutions are available for higher frequencies. Options are available for extended temperature use, ...

The 818-BB-21A 1.2 Ghz Optical Receiver consists of a free-space 300 to 1100 nm biased Silicon detector with a 0.40 mm diameter and a 500 ps rise time. It has a built-in amplifier with 26 dB of gain.

Here, we report the implementation of a real local oscillator continuous-variable quantum key distribution system with an integrated silicon photonic receiver chip.

Coherent announces the launch of its 2x400G-FR4 Lite optical transceiver, a silicon photonics-based module optimized for AI-driven data centers and high-speed Ethernet networks.

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