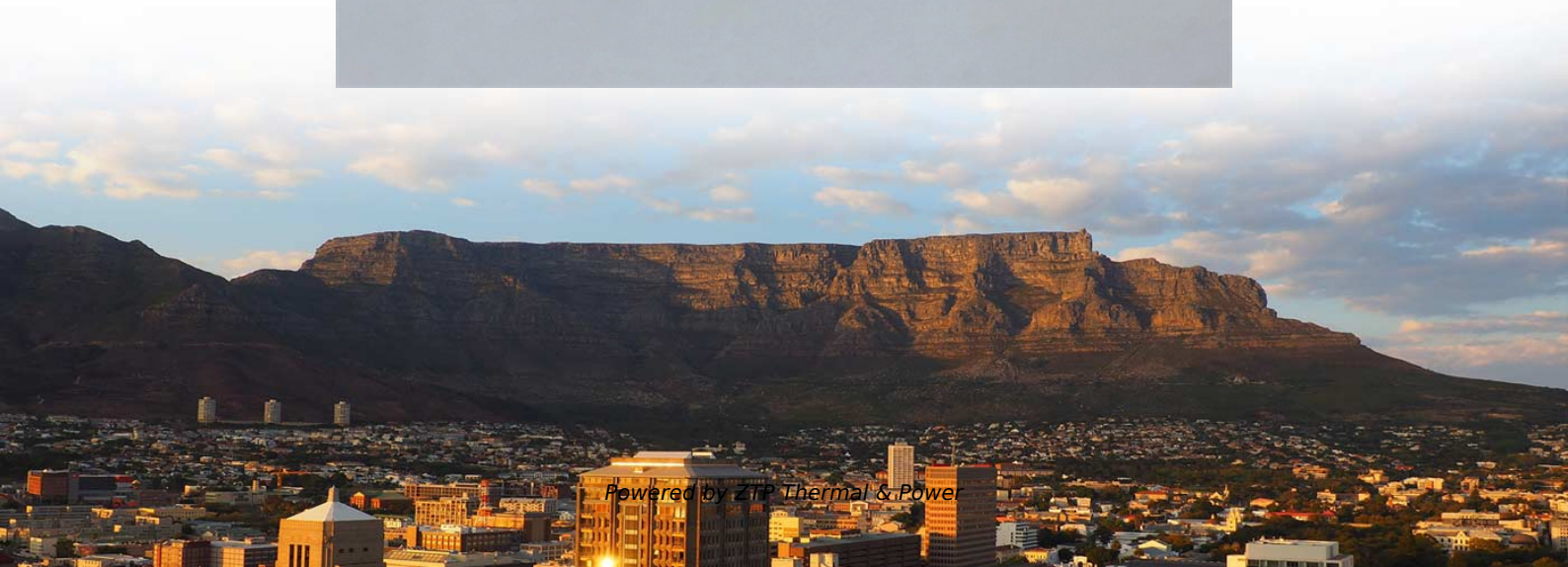


Selection Guide for Low-Loss Silicon Photonics Technology for Campus Networks





Selection Guide for Low-Loss Silicon Photonics Technology for Camp

Ultra-low loss waveguide platform in silicon photonics

Abstract Silicon photonics is the most promising technology for applications ranging from large-bandwidth, low power consumption datacom transceivers, to wearable health monitoring

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Low-loss optical waveguides made with a high-loss material

Based on subwavelength gratings, here, we show that it is possible to create broadband, multimode waveguides with very low propagation losses despite using a strongly absorbing material.

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Ultra-Low-Loss Silicon Nitride Photonic Integrated Circuits for Highly

Finally, a study is presented on extending the benefits and designs of ultra-low loss silicon nitride waveguides to silicon-on-insulator waveguides, which are an attractive platform for many ultra-low

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Silicon Photonics: The Future of High-Speed Optical

? Core Components of Silicon Photonics Waveguides and Optical Paths Silicon waveguides confine and guide light through total internal reflection within

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New-generation ultra-low loss silicon photonic waveguide and devices

The state-of-art micro-racetrack resonator, high-resolution microwave filter and 100-cm-



long delayline are demonstrated with standard 220-nm-SOI (silicon-on-insulator) MPW-foundry processes.

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Ultra-Low-Loss Silicon Waveguides for Heterogeneously Integrated

Abstract: Integrated ultra-low-loss waveguides are highly desired for integrated photonicsto enable applications that require long delay lines, high-Q resonators, narrow filters, etc. Here, we present an

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Silicon Photonics

Silicon photonics is defined as an optical technology that integrates photonics and electronics to enhance high-speed communications and is considered a strategically important systems technology

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Ultracompact programmable silicon photonics using layers of low-loss

High-performance programmable silicon photonic circuits are considered to be a critical part of next generation architectures for optical processing, photonic quantum circuits and neural networks.

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Ultra-Low Loss Silicon Nitride Waveguides on Monolithic Integrated

We demonstrate silicon nitride waveguides with

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