

Procurement of Silicon Photonics Equipment for Network Security

Regulatory bodies are updating cybersecurity and physical security requirements for data centre networking equipment in response to the new threat landscape. Market: The Silicon Photonics ...

In this paper, we present the design, fabrication, and experimental evaluation of advanced silicon-photonics-based PUFs utilizing Contra-Directional Coupler (CDC) structures.

InfiniBand for AI and Scientific Computing With ultra-low latency, in-network computing, and next-generation silicon-photonics CPO systems, the NVIDIA Quantum InfiniBand architecture provides the ...

ABSTRACT putation for AI hardware accelerators. However, integrating SiPh with electronic sub-systems can introduce new security vulnerabilities that cannot be adequately addressed using ...

Researchers are exploring various approaches to achieve these objectives, such as quantum key distribution (QKD) systems implemented on silicon photonic platforms, which leverage ...

This paper provides a comprehensive technical analysis of SiPh's transformative role in defense applications, including communications, electronic warfare (EW), sensing, and high ...

We investigate critical vulnerabilities in the SiPH supply chain, including Denial of Service (DoS), data leakage, and reliability, and propose physical inspection as a potential security measure.

This paper explores the opportunities and challenges within the silicon photonics CPO supply chain and underscores the importance of developing a secure, efficient, and resilient ...

We leverage the broad capabilities within Sandia's MESA facility, including our co-located silicon and compound semiconductor fabs, deep R&D expertise, and low-volume manufacturing infrastructure to ...

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