Low-loss debugging of hybrid optoelectronic cables

A hybrid optical electronic mapper-shuffler-reducer structure is presented to enhance the interconnection of current multi-dimensional direct networks.

Yet, its need to constantly check adjacent channel congestion leads to significant communication delays. This paper proposes an adaptive optoelectronic hybrid interconnect shunting ...

A hybrid decoding structure that combines a feedforward and recurrent structure that shows similar decoding performance as a full feedforward structure, but requires sig-nificantly fewer parameters.

With the large-scale application of ultra-low-loss optical fibers, optical fiber communications has experienced rapid development for more than two decades.

We describe a novel system which uses hybrid 2.5D/3D integration to compose a state-of-the-art FPGA compute chiplet, three electrical interface chiplets, and three photonic interface chiplets.

We proposed an optical hybrid with a three-dimensional spiral structure, which can effectively avoid crosstalk and has only a 2.8° cross angle.

TSVs and redistribution layers (RDLs) are of great importance for both the packaging process and the system design of 3D integration. This paper presents the measurements and analysis of TSV and ...

As described elsewhere on the FOA website, there are three ways of setting a reference and testing fiber optic cables depending on the standards requirements or the types of connectors on the cables.

This work demonstrates the combination of multi-layer low-loss SiN waveguides with high-performance LN EOMs made in a scalable fabrication process using conventional low-resistivity ...

UVL-based hybrid neural network model for generalized optical fiber channel modeling Jiaming Liu, Rui Wang, Hong Lin, Tianqian Zhang, Wu Liu, Jing Zhang, and Kun Qiu

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