

Design and Development of Optical Backplane Connectors



Overview

The design, implementation and characterisation of an electro-optical backplane and an active pluggable optical connector technology are presented. This low cost, dense optical interconnect technology combined with recent advances in 10G/lane and beyond, mini me overall footprint as a traditional MT-type, multi-fiber rectangular ferrule. The new optical ferrule. The LightCONEX® series of optical backplane module connectors for OpenVPX systems is Smiths Interconnects' answer to the stringent SWaP requirements of today's defense and industrial applications in which fiber optics are replacing high bandwidth copper interconnects. Smiths Interconnect backplane. Amphenol-BSI 100G VPX Backplane is based on the OpenVPX65 BKP3-CEN08-15. We have used our experience from 30 years developing 100G backplane systems to the IT/Datacom market. ded for military and aerospace applications.

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Abstract and Figures The design, implementation and characterisation of an electro-optical backplane and an active pluggable in-plane optical connector ...



In this paper we will examine what attracts system architects and mechanical designers to the use of blind mating optical interconnects as well as design requirements, fiber density drivers, maintenance, ...



We design, build and test customised Backplane & Midplane solutions for most of the global leaders in IT Datacom and Telecoms technology systems. We have products performing to 56gb/s today in the ...



Smiths Interconnect backplane optical connectors with Reflex Photonics technology have been developed to be compliant with the VITA 66.5 standard and in alignment with the SOSATM Technical ...



The paper discusses the development of a robotized work-cell for the automatic assembly of an optical backplane for high-bandwidth ICT apparatus, to be integrated in a production ...



The design, implementation and characterisation of an electro-optical backplane and an active pluggable optical connector technology are presented. The connection architecture adopted allows line cards to ...



Open.Tech specializes in providing custom backplane assemblies with a focus on high-speed, high-density components that power them. Our expertise includes the design and manufacture of critical ...



Novel compact optical backplane connectors with 2-D arranged inputs/outputs (I/Os) are demonstrated. To meet the requirement of higher integration in an optical backplane system, we ...



on and performance of next generation optical backplane interconnect components. This low cost, dense optical interconnect technology combined with recent advances in 10G/lane and beyond, mini.



Details of the design, fabrication and assembly of the different parts of this optical bus backplane are presented and related optical and data transmission characterisation studies are reported.



Design and Construction of the VPX Connector
Amphenol Aerospace (AAO) in Sidney, NY has decades of experience developing rugged board level products inte. ded for military and aerospace ...



We developed a novel low-cost polish-less elastically deformable optical multifiber backplane connector. The ferrule deformation and fibers buckling were enabled to cancel the ...

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