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What does it take to engineer and mass-produce a reliable parallel optics module...Or is it good enough to just have a good VCSEL and PIN array?

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Parallel optics modules are complex hybrid solutions that incorporate chip design of the VCSEL and PIN arrays plus optics design of the lens; a packaging design to provide thermal management and environmental protection; and an electrical subassembly that includes the IC and firmware. All of this needs to be designed to operate reliably over a long lifetime at worse case conditions. This is proven out thru extensive qualification testing. Designing and producing this complex product for high volume production also requires unique testing capabilities and process development. This presentation will highlight the design aspects involved in the development and manufacture of high speed parallel optics module.

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