

Optical module SOC integrated ADC

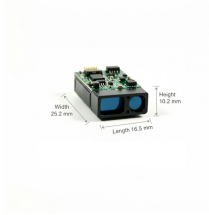


Overview

A SOSA-aligned 3U OpenVPX board based on the Intel® Agilex™ 9 SoC FPGA Direct RF-Series, the DRF5580 features four integrated 64 Gs/s ADCs and DACs, 16 GB DDR4 SDRAM memory, and 100 GigE optical interfaces to bring multichannel data conversion and processing capabilities to. A SOSA-aligned 3U OpenVPX board based on the Intel® Agilex™ 9 SoC FPGA Direct RF-Series, the DRF5580 features four integrated 64 Gs/s ADCs and DACs, 16 GB DDR4 SDRAM memory, and 100 GigE optical interfaces to bring multichannel data conversion and processing capabilities to. SOSA-Aligned Wideband Digital Signal Processing with Agilex 9 A SOSA-aligned 3U OpenVPX board based on the Intel® Agilex™ 9 SoC FPGA Direct RF-Series, the DRF5580 features four integrated 64 Gs/s ADCs and DACs, 16 GB DDR4 SDRAM memory, and 100 GigE optical interfaces to bring multichannel data. The Enclustra Andromeda XRU50 RFSoc module provides remarkable RF performance in an integrated, compact, power-efficient package for next-generation RF systems. It is equipped with an advanced System-on-Chip (SoC) with numerous integrated RF-DACs and RF-ADCs. This enables the direct synthesis of RF. Analog Devices' optical networking solutions address a wide range of applications in

data center, enterprise, and telecom markets. They enable power efficient and small form factor optical modules to support network traffic and bandwidth growth driven by the digital economy, social media, streaming. Integrated circuits and reference designs help you create a smaller and faster optical module design used in high-bandwidth data communication applications. These Direct RF SoC FPGAs use 10 nm SuperFin process technology, Quad-core Arm processors, ultra-low converter interface latency. The Broadcom® BCM87840 is the industry's highest-performance and lowest-power single-chip 400GbE PAM-4 PHY transceiver capable of driving four lanes of 106-Gb/s PAM-4 at 53 Gbaud, while supporting DR4, FR4, LR4, and QSFP112 optical links. The BCM87840 leverages Broadcom's market-leading 7-nm PAM-4.

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We offer higher precision, lower power, and smaller size solutions to enable the design of higher bandwidth optical modules and systems while retaining small form-factor. Let us know what you need ...



The BCM87840 incorporates a highly differentiated feature set, including integrated voltage regulators, 400G FEC capability, and crossbar functionality to provide unmatched competitive advantage to the ...



Everything you need to build an optical network from end-to-end. Thin-film filter and PLC based AWG for multiplexing, a full suite of components for optical amplification use, optomechanical or MEMS-based ...



The Enclustra Andromeda XRU50 RFSoc module provides remarkable RF performance in an integrated, compact, power-efficient package for next-generation RF systems. It is equipped with an ...



Electrical and optical transceiver data rates inside datacenter and accelerator clusters are increasing to keep up with rapidly growing traffic demand due to the rise of 5G, IoT, and AI applications.



RFS1140 is a trusted, direct RF multi-chip module with an AMD Versal Adaptive SOC featuring wideband 64 GSPS data converters and 4 GB LPDDR4 memory for electronic warfare, ...



Overview Description Related applications
Integrated circuits and reference designs help you create a smaller and faster optical module design used in high-bandwidth data communication applications.



Utilizes Embedded Multi-Die Interconnect Bridge (EMIB) and Advanced Interconnect Bus (AIB) tile interconnect technology to integrate high-performance ADCs and DACs with Agilex 7 and Stratix 10 ...



Optical control solutions including precision integrated controllers, converters, high-voltage converters, linear amplifiers, and log amps to enable our customers to design higher data rate, lower ...



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Contact Us

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