

Broadcom Ethernet NICs

PCIe NIC Ethernet Adapters

Specification Sheet

Overview

Broadcom® offers a complete PCIe NIC 3.0 Ethernet portfolio supporting the full range of speeds and feeds, from 1G to 400G in the standard half-height, half-length form factor. This portfolio leverages Broadcom's comprehensive family of low-power Ethernet controller ASICs.

Broadcom's Ethernet network controller delivers best-in-class performance and hardware acceleration and offload capabilities that result in higher throughput, higher CPU efficiency, and lower workload latency for TCP/IP as well as RoCE traffic.

Broadcom PCIe Ethernet NIC adapters utilize market-leading 50/100G PAM-4, 10/25G NRZ, and PCIe 5.0/4.0 SerDes technology, ensuring seamless interoperability with Broadcom's market-leading Top-of-Rack switch and PCIe Express switch solutions, which also use the same SerDes technology.

Broadcom Ethernet adapters support SPDM-compliant attestation. Attestation enables data center operators to securely verify the authenticity and conformity of the hardware and software deployed in their data centers.

Broadcom Ethernet adapters, including the PCIe NIC portfolio, are supported with a full suite of drivers for all major operating system distributions and versions. The latest firmware, drivers, and tools can be downloaded from www.broadcom.com.

Key Features

- PCIe Ethernet NIC
- Line-rate throughput from 1 Gb/s to 400 Gb/s
- 1-port, 2-port, and 4-port support
- DAC, copper, and fiber connectivity
- PCIe 3.0/4.0 and 5.0 host interface
- 50/100G PAM-4 and 10/25G NRZ SerDes
- TruFlow™-configurable packet processor for virtual switch acceleration
- Broadcom security technology provides Silicon Root of Trust, secure boot and SPDM attestation
- On-chip tunneling protocol processing for Geneve, VXLAN, and NVGRE
- Hardware-based low-latency RoCE v2
- SR-IOV up to 1K VFs
- GPUDirect acceleration

Portfolio and Ordering Information

Part Number	Ports	Port Speed	VO	Host I/F	Form Factor
BCH87505-F2000	F2000	2x 100GbE	QSPF5E	PCIe 4.0 x8	160
BCH87644-E-40C	F150p	1x 50GbE	QSPF2B	PCIe 3.0 x8	160
BCH87504-F425G	F425G	4x 25GbE	SPF2B	PCIe 4.0 x8	160
BCH87644-E-40C	F200p	2x 25GbE/100G	SPF2B	PCIe 3.0 x8	160
BCH87402-A400AC	F200p	2x 100GbE	SPF+	PCIe 3.0 x8	160
BCH87484-A160C	F200T	2x 100GbE	RJ-45	PCIe 3.0 x8	160
BCH87505-F2000	F2000	1x 200GbE	QSPF5A	PCIe 4.0 x8	76
BCH87506-F1400G-DP00	F1400G	1x 400GbE	QSPF10-D0	PCIe 5.0 x8	160
BCH87506-F2000-QP00	F2000	1x 200GbE or 2x 100GbE	QSPF10	PCIe 5.0 x8	160

Data Sheet Broadcom

Istvan Nagy



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Complex Digital Hardware Design Istvan Nagy,2024-05-09 This book is about how to design the most complex types of digital circuit boards used inside servers routers and other equipment from high level system architecture down to the low level signal integrity concepts It explains common structures and subsystems that can be expanded into new designs in different markets The book is targeted at all levels of hardware engineers There are shorter lower level introductions to every topic while the book also takes the reader all they way to the most complex and most advanced topics of digital circuit design layout design analysis and hardware architecture

Design of Three-phase AC Power Electronics Converters

Fei "Fred" Wang,Zheyu Zhang,Ruirui Chen,2023-12-12 DESIGN OF THREE PHASE AC POWER ELECTRONICS CONVERTERS Comprehensive resource on design of power electronics converters for three phase AC applications Design of Three phase AC Power Electronics Converters contains a systematic discussion of the three phase AC converter design considering various electrical thermal and mechanical subsystems and functions Focusing on establishing converter components and subsystems models needed for the design the text demonstrates example designs for these subsystems and for the whole three phase AC converters considering interactions among subsystems The design methods apply to different applications and topologies The text presents the basics of the three phase AC converter its design and the goal and organization of the book focusing on the characteristics and models important to the converter design for components commonly used in three phase AC converters The authors present the design of subsystems including passive rectifiers inverters and active rectifiers electromagnetic interference EMI filters thermal management system control and auxiliaries mechanical system and application considerations and discuss design optimization which presents methodology to achieve optimal design results for three phase AC converters Specific sample topics covered in Design of Three phase AC Power Electronics Converters include Models and characteristics for devices most commonly used in three phase converters including conventional Si devices and emerging SiC and GaN devices Models and selection of various capacitors characteristics and design of magnetics using different types of magnetic cores with a focus on inductors Optimal three phase AC converter design including design and selection of devices AC line inductors DC bus capacitors EMI filters heatsinks and control The design considers both steady state and transient conditions Load and source impact converter design such as motors and grid condition impacts For researchers and graduate students in power electronics along with practicing engineers working in the area of three phase AC converters Design of Three phase AC Power Electronics Converters serves as an essential resource for the subject and may be used as a textbook or industry reference

A high-voltage pulsed power modulator for fast-rising arbitrary waveforms Hochberg, Martin,2020-02-19 [Driving Scientific and Engineering Discoveries Through the Integration of Experiment, Big Data, and Modeling and Simulation](#) Jeffrey Nichols,Arthur 'Barney' Maccabe,James Nutaro,Swaroop Pophale,Pravallika Devineni,Theresa Ahearn,Becky

Verastegui,2022-03-09 This book constitutes the revised selected papers of the 21st Smoky Mountains Computational Sciences and Engineering Conference SMC 2021 held in Oak Ridge TN USA in October 2021 The 33 full papers and 3 short papers presented were carefully reviewed and selected from a total of 88 submissions The papers are organized in topical sections of computational applications converged HPC and artificial intelligence advanced computing applications use cases that combine multiple aspects of data and modeling advanced computing systems and software connecting instruments from edge to supercomputers deploying advanced computing platforms on the road to a converged ecosystem scientific data challenges The conference was held virtually due to the COVID 19 pandemic

West's Federal Supplement ,2002 Cases decided in the United States district courts United States Court of International Trade and rulings of the Judicial Panel on Multidistrict Litigation

Proceedings of BSDCon ... ,2003

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