

Broadcom Ethernet NICs

PCIe NIC Ethernet Adapters

Specification Sheet

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

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.

Portfolio and Ordering Information

Part Number	Ports	Port Speed	VO	Host I/F	Form Factor
BCH87505-F2000	F2000	2x 100GbE	QSFP56	PCIe 4.0 x8	16U
BCH87504-F400	F150p	1x 50GbE	QSFP28	PCIe 3.0 x8	16U
BCH87504-F425G	F425G	4x 25GbE	SFP28	PCIe 4.0 x8	16U
BCH87504-F400C	F200p	2x 25GbE/100G	SFP28	PCIe 3.0 x8	16U
BCH87502-A400AC	F200p	2x 100GbE	SFP+	PCIe 3.0 x8	16U
BCH87504-A400C	F200T	2x 100GbE	RJ-45	PCIe 3.0 x8	16U
BCH87505-F2000	F2000	1x 200GbE	QSFP56	PCIe 4.0 x8	7U
BCH87506-F4000DP00	F4000D	1x 400GbE	QSFP10-DD	PCIe 5.0 x8	16U
BCH87506-F20000QP00	F20000	1x 2000GbE (2x 1000GbE)	QSFP12	PCIe 5.0 x8	16U

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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 **Standard & Poor's 500 Guide, 2011 Edition** Standard & Poor's,2010-12-17 The latest critical data for making superior investing decisions from the world s most respected financial index The Standard Poor s 500 Index is the most watched index in America if not the world Whether you re an individual investor purchasing stocks an executive researching corporate competitors or a job seeker looking for concise and up to the minute overviews of potential employers you ll find the critical often hard to find information you need in Standard Poor s 500 Guide 2011 Edition Easy to use and packed with market intelligence on all 500 companies listed in the S P 500 Index this authoritative reference includes Information on the bluest of blue chip stocks from Abbott Labs and GE to Microsoft and Yahoo Summaries of each company s business activity sales history and recent developments Earnings and dividends data with four year price charts Exclusive Standard Poor s Quality Rankings from A to D New introduction by David M Blitzer Ph D Managing Director and Chairman of the Index Committee Standard Poor s In addition you get unique at a glance details about Stocks with A Quality Rankings Companies with five consecutive years of earnings increases a key indicator of strong long term performance Per share data income statement analyses and balance sheet overviews of each company covered Put the comprehensive updated data and analysis expertise of the world s premier securities information firm at your fingertips with Standard Poor s 500 Guide 2011 Edition **Standard & Poor's 500 Guide, 2010 Edition** Standard & Poor's,2010-03-12 500 Vital Data on Earnings Dividends and Share Prices Exclusive Analysts Stars Recommendations Key Income and Balance Sheet Statistics Company Addresses Telephone Numbers and Names of Key Corporate Officers The Standard Poor s 500 Index is the most watched index in America if not the world Whether you re an individual investor looking to make a smart stock purchase an executive researching corporate competitors or a job seeker looking for concise and up to the minute overviews of potential employers you ll find the critical often hard to find information you need in Standard Poor s 500 Guide 2010 Edition Easy to use and packed with market intelligence on all 500 of the companies listed in the S P 500 Index this authoritative reference includes Information on the bluest of blue chip stocks from Abbott Labs and GE to Microsoft and Yahoo Summaries of each company s business activity sales history and

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Proceedings of the USENIX ... Annual Technical Conference ,2003 **Standard & Poor's Stock**

Reports ,2010-03 **Proceedings of the general track : 2003 USENIX annual technical conference : June 9 - 14, 2003, San Antonio, Texas, USA** USENIX Association,2003 **Standard & Poor's 500 Guide 2009 PB** Standard & Poor's,2009-01-18 The latest information on the bluest of the blue chip stocks from Abbott Labs and General Electric to Microsoft and Yahoo Earnings and dividends data with three year price charts Exclusive Standard Poor s Quality Rankings from A to D Detailed data on each stock that makes up the S P 500 Index *The Standard and Poor's 500 Guide* Standard & Poor's,2005-12 Text and statistical data on 500 individual companies *EDN* ,2008 Standard and Poor's 500 Guide Standard & Poor's,2000-12 Individual investors money managers analysts brokers and financial writers and editors all turn to Standard Poor s for securities information that is second to none This updated volume includes exclusive rankings and details on America s top companies and their stocks **The Advertising Red Books** ,2008-07 **Programming the Raspberry Pi: Getting Started with Python** Simon Monk,2012-10-30 Program your own Raspberry Pi projects Create innovative programs and fun games on your tiny yet powerful Raspberry Pi In this book electronics guru Simon Monk explains the basics of Raspberry Pi application development while providing hands on examples and ready to use scripts See how to set up hardware and software write and debug applications create user friendly interfaces and control external electronics Do it yourself projects include a hangman game an LED clock and a software controlled roving robot Boot up and configure your Raspberry Pi Navigate files folders and menus Create Python programs using the IDLE editor Work with strings lists and functions Use and write your own libraries modules and classes Add Web features to your programs Develop interactive games with Pygame Interface with devices through the GPIO port Build a Raspberry Pi Robot and LED Clock Build professional quality GUIs using Tkinter **Standard and Poor's 500 Guide, 2007 Edition** Standard & Poor's,2006-12 Text and statistical data on 500 individual companies

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