7 Port Gigabit Ethernet Switch With Sgmii And Rgmii Mii

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

As organizations drive to transform and virtualize their IT infrastructures to reduce costs and manage risk, networking is pivotal to success. Optimizing network performance, availability, adaptability, security, and cost is essential to achieving the maximum benefit from your infrastructure. But what is needed to support these networking requirements? Expertise to plan and design networks with holistic consideration of servers, storage, application performance, and manageability Networking solutions that enable investment protection with a range of performance and cost options that match your environment Technology and expertise to design, implement, and manage network security and resiliency Robust network management software to provide integrated, simplified management that lowers the operating costs of complex networks IBM® and Juniper® have entered into an agreement to provide expanded network technology choices with the new IBM Ethernet switches, routers, and appliances to provide an integrated end-to-end resiliency and security framework. Combined with the IBM vast data center design experience and with a field-proven operating system, Junos®, this portfolio, which we describe in this IBM Redbooks® publication, represents the ideal convergence of strength and intelligence. For organizations striving to transform and virtualize their IT infrastructure, such a combination can help you reduce costs, manage risks, and prepare for the future. This book is intended for anyone who wants to learn more about IBM j-type Data Center Networking.

The perfect guide to help administrators set up Apple's Mac OS X Lion Server With the overwhelming popularity of the iPhone and iPad, more Macs are appearing in corporate settings. The newest version of Mac Server is the ideal way to administer a Mac network. This friendly guide explains to both Windows and Mac administrators how to set up and configure the server, including services such as iCal Server, Podcast Producer, Wiki Server, Spotlight Server, iChat Server, File Sharing, Mail Services, and support for iPhone and iPad. It explains how to secure, administer, and troubleshoot the network, and shows Windows admins how to incorporate a Mac subnet into the Windows Active Directory domain using Apple Open Directory. Explains all the necessary information about administering, securing, and troubleshooting a network with Mac OS X Lion Server Enables you to set up and configure the server as well as the iCal Server, Podcast Producer, Wiki Server, Spotlight Server, iChat Server, File Sharing, Mail Services, and support for iPhone and iPad Helps Windows administrators learn to easily incorporate a Mac subnet into the Windows Active Directory domain using Apple Open Directory With this easy guide at hand, implementing Mac OS X Lion Server and administering a Mac network is a breeze.

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

The deployment of Gigabit Ethernet into the MAN/WAN (Metropolitan Area Network/Wide Area Network) arena is one of networking's most profitable areas. This reference clearly explains the technology, standards, and market players. Covers: * 10GigE and IEEE 802.3ae * RPR (resilient Packet Ring) * GigE vs. SONET * IEEE 802.3z

System Design for Telecommunication Gateways provides a thorough review of designing telecommunication network equipment based on the latest hardware designs and software methods available on the market. Focusing on high-end efficient designs that challenge all aspects of the system architecture, this book helps readers to understand a broader view of the system design, analyze all its most critical components, and select the parts that best fit a particular application. In many cases new technology trends, potential future developments, system flexibility and capability extensions are outlined in preparation for the longevity typical for products in the industry. Key features: Combines software and hardware aspects of the system design. Defines components and services supported by open-source and commercial basic and extended software platforms, including operating systems, middleware, security, routing, management layer and more. Focuses on disruptive technologies. Provides guidelines for developing software architectures based on multi-threaded, multi-process, multi-instance, multi-core, multi-chip, multi-blade and multi-chassis designs. Covers a number of advanced high-speed interconnect and fabric interface technologies and their commercial implementations. Presents different system form factors from compact pizza-box styles to medium and large bladed systems, including IBM BladeCenter, ATCA and microTCA-based chassis. Describes different mezzanine cards, such as PMC, PrPMC, XMC, AMC and others.

Network World

If you're ready to build a large network system, this handy excerpt from Ethernet: The Definitive Guide, Second Edition gets you up to speed on a basic building block: Ethernet switches. Whether you're working on an enterprise or campus network, data center, or Internet service provider network, you'll learn how Ethernet switches function and how they're used in network designs. This brief tutorial also provides an overview of the most important features found in switches, from the basics to more advanced features found in higher-cost and specialized switches. Get an overview of basic switch operation, the spanning tree protocol, and switch performance issues Learn about switch management and some of the most widely used switch features Discover how a hierarchical design can help maintain stable network operations Delve into special-purpose switches, such as multi-layer, access, stacking, and wireless access-point switches Learn about advanced switch features designed for specific networking environments Dive deeper into switches, with a list of protocol and package documentation

A step-by-step guide to parallelizing cem codes The future of computational electromagnetics is changing drastically as the new generation of computer chips evolves from single-core to multi-core. The

burden now falls on software programmers to revamp existing codes and add new functionality to enable computational codes to run efficiently on this new generation of multi-core CPUs. In this book, you'll learn everything you need to know to deal with multi-core advances in chip design by employing highly efficient parallel electromagnetic code. Focusing only on the Method of Moments (MoM), the book covers: In-Core and Out-of-Core LU Factorization for Solving a Matrix Equation A Parallel MoM Code Using RWG Basis Functions and ScaLAPACK-Based In-Core and Out-of-Core Solvers A Parallel MoM Code Using Higher-Order Basis Functions and ScaLAPACK-Based In-Core and Out-of-Core Solvers Turning the Performance of a Parallel Integral Equation Solver Refinement of the Solution Using the Conjugate Gradient Method A Parallel MoM Code Using Higher-Order Basis Functions and Plapack-Based In-Core and Out-of-Core Solvers Applications of the Parallel Frequency Domain Integral Equation Solver Appendices are provided with detailed information on the various computer platforms used for computation; a demo shows you how to compile ScaLAPACK and PLAPACK on the Windows® operating system; and a demo parallel source code is available to solve the 2D electromagnetic scattering problems. Parallel Solution of Integral Equation-Based EM Problems in the Frequency Domain is indispensable reading for computational code designers, computational electromagnetics researchers, graduate students, and anyone working with CEM software.

This IBM® Redbooks® publication is an IBM and Cisco collaboration that articulates how IBM and Cisco can bring the benefits of their respective companies to the modern data center. It documents the architectures, solutions, and benefits that can be achieved by implementing a data center based on IBM server, storage, and integrated systems, with the broader Cisco network. We describe how to design a state-of-the art data center and networking infrastructure combining Cisco and IBM solutions. The objective is to provide a reference guide for customers looking to build an infrastructure that is optimized for virtualization, is highly available, is interoperable, and is efficient in terms of power and space consumption. It will explain the technologies used to build the infrastructure, provide use cases, and give guidance on deployments.

The bestselling guide for network administrators, fully updated for Windows 8 If you're responsible for a network, large or small, this book is your one-stop resource for all the essential details you need to know. Fully updated to cover Windows 8 and Windows Server 2012, it features the latest on broadband technologies, storage, backup procedures, and all the current networking trends. Nine handy minibooks cover the basics, building a network, administration and security, TCP/IP and the Internet, wireless networking, mobile networking, Windows Server 2012, using other Windows servers, and managing Linux systems. A proven bestseller, with more than 111,000 copies sold in four previous editions Written by veteran IT expert Doug Lowe, who has more than 50 technology books to his credit Provides one-stop shopping for everything networking professionals need to keep large or small networks functioning efficiently Updated with the latest information on building and administering a network, security, wireless and mobile networking, using Windows servers, working with Linux systems, and much more Networking All-in-One For Dummies, 5th Edition provides what network administrators need to know in a handy, easy-to-use reference.

This updated bestseller covers Windows 8, new storage and backup technologies, and more Both beginning network administrators and home users have made previous editions of this book a top seller. Now fully updated, this edition shows you step by step how to set up and maintain a network and covers Windows 8 and Windows Server 2008 R2 SP1. Author Doug Lowe also includes updated coverage of broadband technologies as well as storage and back-up procedures, all in his easy-to-follow style. You'll learn to build a wired or wireless network, secure and optimize it, safely connect to the Internet, troubleshoot problems, and much more. A perennial bestseller, this guide to networking has been fully revised to cover Windows 8, Windows Server 2008 R2 SP1, new broadband technologies, and updated storage and backup procedures Provides introductory-level networking fundamentals for those inexperienced in network technology Covers networking with all major operating systems Shows how to build, secure, and optimize a network, safely connect to the Internet, troubleshoot problems, and more Networking For Dummies, 10th Edition walks you through the process of setting up and maintaining a network, at home or in the office.

IBM's vision of the future of computing and how its evolving technologies, product lines, and services fit into that future are the subject of this broad look at the world's largest computer company. Discussing IBM's e-business strategy to leverage Internet technology, its new emphasis on IBM Global Services, and its fast-growing consulting business this overview. profiles of IBM's new eServer xSeries, pSeries, iSeries, and zSeries, showing how each fits into an e-business context. A companion web site accessible only to buyers of this book provides the latest news and additional resources related to IBM technology and product lines.

This is a complete revision of Clark's bestseller "Designing Storage Area Networks." The new book provides guidelines for implementing SANs to solve existing networking problems in large-scale corporate networks.

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