



# msi

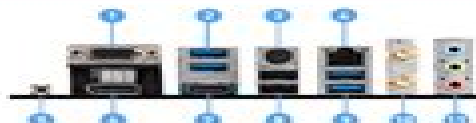
MOTHERBOARD  
**B550M PRO-VDH WIFI**  
BUSINESS ELEGANCE



## SPECIFICATIONS

<b>Model Name</b>	B550M PRO-VDH WIFI
<b>CPU Support</b>	Support for 3rd Gen AMD <sup>™</sup> Ryzen <sup>™</sup> processors and future AMD <sup>™</sup> Ryzen <sup>™</sup> processors with BIOS update
<b>CPU Socket</b>	AMD Socket AM4
<b>Chipset</b>	AMD <sup>™</sup> B550 Chipset
<b>Graphics Interface</b>	1x PCIe 4.0 / 3.0 x16 slot
<b>Display Interface</b>	DisplayPort, HDMI, VGA - Requires Processor Graphics
<b>Memory Support</b>	4 DIMMs, Dual Channel DDR4-4400 MHz (OC)
<b>Expansion Slots</b>	2x PCIe 3.0 x1 slots
<b>Storage</b>	1x M.2 Gen4 x4 slot, 1x M.2 Gen3 x4 slot, 4x SATA 6Gbps ports
<b>USB ports</b>	7x USB 3.2 Gen 1 5Gbps (5 Type-A + 1 Type-C) + 4x USB 2.0
<b>LAN</b>	Realtek <sup>™</sup> RTL8111H Gigabit LAN
<b>Wi-Fi / Bluetooth</b>	Intel <sup>™</sup> Wireless-AC 3168, Bluetooth 4.2
<b>Audio</b>	8-Channel (7.1) HD Audio with Audio Boost

## CONNECTIONS



1. VGA
2. USB 3.2 Gen 1 5Gbps Type-A
3. Keyboard / Mouse
4. LAN
5. Flash BIOS Button
6. DisplayPort
7. HDMI
8. USB 2.0
9. USB 3.2 Gen 1 5Gbps Type-A
10. Wi-Fi / Bluetooth
11. HD Audio Connectors

## FEATURES



### Core Boost

With premium layout and fully digital power design to support more cores and provide better performance.



### DDR4 Boost

Advanced technology to deliver pure data signals for the best gaming performance and stability.



### Lightning Gen4 Solution

The latest Gen4 PCIe and M.2 solution with up to 64GB/s bandwidth for maximum transfer speed.



### M.2 Shield FROZR

Strengthened built-in M.2 thermal solution. Keeps M.2 SSDs safe while preventing throttling, making them run faster.



### PCI-E Steel Armor

Protecting VGA cards against bending and EMI



### Mystic Light Extension

Control additional RGB or Rainbow strip added to your system with Dragon Center.



### 2oz Thickened Copper PCB

An enhanced PCB design improves heat dissipation and performance reliability.



### Audio Boost

Reward your ears with studio grade sound quality for the most immersive audio experience.

# Msi Motherboards Manual

**RC Schank**



## **Msi Motherboards Manual:**

**Upgrading and Repairing PCs** Scott Mueller, 2015-06-22 Access to 3 hours of troubleshooting videos as well as PDFs of previous editions are available through product registration see instructions in back pages of your eBook For more than 25 years Upgrading and Repairing PCs has been the world's 1 guide to PC hardware The single source for reliable information on how PCs work troubleshooting and fixing problems adding hardware optimizing performance and building new PCs This 22nd edition offers beefed up coverage of the newest hardware innovations and maintenance techniques plus more than two hours of new video Scott Mueller delivers practical answers about PC processors mother boards buses BIOSes memory SSD and HDD storage video audio networks Internet connectivity power and much more You'll find the industry's best coverage of diagnostics testing and repair plus cutting edge discussions of improving PC performance via overclocking and other techniques Mueller has taught thousands of professionals in person and millions more through his books and videos nobody knows more about keeping PCs running perfectly Whether you're a professional technician a small business owner trying to save money or a home PC enthusiast this is the only PC hardware book you need **NEW IN THIS EDITION** The newest processors including Intel's latest Core i Haswell processors and AMD's Kaveri core processors Everything you need to know about the latest GPU technology from NVIDIA and AMD including developments in OpenGL DirectX and Mantle New firmware innovations like the InSyde BIOS Back to BIOS buttons and all the updated settings available for the newest processors and chipsets The latest in updated home networking standards from blazing fast 802.11ac Wi-Fi to HomeGrid and G.hn powerline networking Ever larger storage thanks to new technologies like helium filled hard disks shingled magnetic recording and CFast and XQD for flash memory Emerging interfaces such as mSATA USB 3.1 and M.2 Updated coverage of building PCs from scratch from choosing and assembling hardware through BIOS setup and troubleshooting **Mike Meyers' A+ Guide to Managing and Troubleshooting PCs, Second Edition** Mike Meyers, 2007-03-15 Essential Skills for a Successful IT Career Mike Meyers the leading authority on CompTIA A training and certification has helped hundreds of thousands of people master CompTIA A PC technician skills and now he can help you too Completely updated for the new CompTIA A standards Mike Meyers' CompTIA A Guide to Managing and Troubleshooting PCs Second Edition will help you pass the CompTIA A certification exams and become an expert hardware technician Inside you'll find helpful on the job tips end of chapter practice questions and hundreds of photographs and illustrations Learn how to Work with CPUs RAM and motherboards Install partition and format hard drives Work with portable PCs PDAs and wireless technologies Install upgrade and troubleshoot Windows 2000 Professional and Windows XP Install sound and video cards Manage printers and connect to networks Implement security measures Understand safety and environmental issues Establish good communication skills and adhere to privacy policies The CD-ROM features Eight full practice exams covering CompTIA A Essentials and Exams 220-602 220-603 and 220-604 One hour of LearnKey video training featuring Mike Meyers teaching

key CompTIA A topics Electronic copy of the book Complete exam objective map for all four exams List of official CompTIA A acronyms Useful tools and utilities for PC technicians Each chapter includes Learning objectives Photographs and illustrations Real world examples Try This and Cross Check exercises Tech tips notes and warnings End of chapter quizzes and lab projects

**Mike Meyers' CompTIA A+ Guide: Practical Application, Third Edition (Exam 220-702)** Mike Meyers, 2010-07-22 Essential Skills for a Successful IT Career Written by CompTIA certification and training expert Mike Meyers this instructive full color guide will help you pass the CompTIA A Practical Application exam and become an expert PC technician Mike Meyers CompTIA A Guide Practical Application Third Edition is completely up to date with the latest CompTIA A standards Inside you ll find helpful on the job tips end of chapter practice questions and hundreds of photographs and illustrations Covers all CompTIA A Practical Application exam topics including CPUs and RAM Motherboards Power supplies Hard drives Windows command line Windows maintenance troubleshooting and security Input output ports Video and multimedia Portable computing Printers Local Area Networking Wireless technologies Internet Computer security The CD ROM features Practice exam for 220 702 300 chapter review questions New video introduction to CompTIA A One hour video training segment Mike s favorite PC tools and utilities Searchable e book Each chapter includes Learning objectives Full color photographs and illustrations Real world examples Try This and Cross Check exercises Tech tips notes and warnings End of chapter quizzes and lab projects

**Computer Hardware 2025** J. Thomas, 2025-11-27 Computer Hardware 2025 by J Thomas is an essential and up to date guide for anyone who wants to master computer components hardware installation troubleshooting and system maintenance

*Mike Meyers' CompTIA A+ Guide to 801 Managing and Troubleshooting PCs, Fourth Edition (Exam 220-801)* Mike Meyers, 2012-12-11 Essential Skills for a Successful IT Career Written by the leading authority on CompTIA A certification and training this instructive full color guide will help you pass CompTIA A exam 220 801 and become an expert PC technician Mike Meyers CompTIA A Guide to 801 Managing and Troubleshooting PCs Fourth Edition is completely up to date with the new CompTIA A standards Inside you ll find helpful on the job tips end of chapter practice questions and hundreds of photographs and illustrations End of chapter solutions and answers are only available to instructors and do not appear in the book Learn how to Work with CPUs RAM BIOS settings motherboards power supplies and other PC components Work with PCs safely using the proper tools Install and configure hard drives Manage input devices and removable media Install video and multimedia cards Install and configure wired and wireless networks Connect to the Internet Manage and maintain portable PCs Install configure and manage printers Protect your PC and your network Build and customize specialized PCs Electronic content features Practice exams for 801 with hundreds of questions An Introduction to CompTIA A video by Mike Meyers Links to Mike s latest favorite shareware and freeware PC tools and utilities Each chapter includes Learning objectives Photographs and illustrations Real world examples Try This and Cross Check exercises Key terms highlighted Tech Tips Notes and Warnings Exam Tips End of chapter quizzes

and lab projects     *Mike Meyers' CompTIA A+ Guide to Managing and Troubleshooting PCs, Fifth Edition (Exams 220-901 & 220-902)* Mike Meyers, 2016-04-29 Essential Skills for a Successful IT Career Written by the leading authority on CompTIA A certification and training this four color guide will help you become a certified IT professional with proven expertise in hardware and software and help you pass CompTIA A exams 220 901 and 220 902 Mike Meyers CompTIA A Guide to Managing and Troubleshooting PCs Fifth Edition offers complete coverage of the latest exam objectives You ll get on the job tips end of chapter review questions and hundreds of color photographs and illustrations Learn how to Work with CPUs RAM microprocessors BIOS motherboards power supplies and other PC components Install configure and troubleshoot hard drives Manage peripheral devices and removable media Install upgrade and maintain operating systems including Windows Mac OS X and Linux Troubleshoot common computer problems Establish users and groups Set up video and multimedia cards Administer smartphones tablets and other mobile devices Install and configure wired and wireless networks Connect to the Internet Secure your PC and your network Install configure and manage printers and multifunction devices Work with the latest virtualization technologies Understand safety and environmental issues Electronic content includes Practice exams for 901 902 One hour of free video training from Mike Meyers TotalSim simulations of performance based questions Mike s favorite free PC tools and utilities A complete PDF copy of the book Instructor resources available Instructor s Manual Power Point slides for each chapter with photographs and illustrations from the book Test Bank cartridges with hundreds of questions for use as quizzes and exams Answers to the end of chapter sections are not included in the book and are only available to adopting instructors     *CompTIA IT Fundamentals (ITF+) Study Guide with Online Labs* Quentin Docter, 2020-10-27 Virtual hands on learning labs allow you to apply your technical skills using live hardware and software hosted in the cloud So Sybex has bundled CompTIA IT Fundamentals labs from Practice Labs the IT Competency Hub with our popular CompTIA IT Fundamentals ITF Study Guide Exam FC0 U61 2nd Edition Working in these labs gives you the same experience you need to prepare for the CompTIA IT Fundamentals FC0 U61 that you would face in a real life setting Used in addition to the book the labs are a proven way to prepare for the certification and for work in the IT field Information Technology is not just about what applications you can use it is about the systems you can support The CompTIA IT Fundamentals certification is an introduction to the skills required to become a successful systems support professional progressing onto more advanced certifications and career success The Sybex CompTIA IT Fundamentals Study Guide covers 100% of the exam objectives in clear and concise language and provides you authoritatively with all you need to know to succeed in the exam Along with gaining preventative maintenance skills you will also develop the tools to complete troubleshooting and fault resolution and resolve common issues experienced by the majority of computer systems The exam focuses on the essential IT skills and knowledge needed to perform tasks commonly performed by advanced end users and entry level IT professionals alike including Identifying and explaining computer components Setting up a workstation

including conducting software installations Establishing network connectivity Identifying compatibility issues and identifying and preventing security risks Managing the safety and preventative maintenance of computers Practical examples exam highlights and review questions provide real world applications and uses The book includes Sybex's interactive online learning environment and test bank with an assessment test chapter tests flashcards and a practice exam Our study tools can help you prepare for taking the exam and increase your chances of passing the exam the first time And with this edition you also get Practice Labs virtual labs that run from your browser The registration code is included with the book and gives you 6 months unlimited access to Practice Labs CompTIA IT Fundamentals Labs with 32 unique lab modules to practice your skills

**CompTIA A+ Certification All-in-One Exam Guide, Ninth Edition (Exams 220-901 & 220-902) Mike**

Meyers, 2016-01-07 This bestselling on the job reference and test preparation guide has been fully revised for the new 2015 CompTIA exam objectives for exams 901 configuring operating systems including Windows 8 Android and iOS and enhanced mobile centered security and troubleshooting procedures The All in One Exam Guide enables you to take the test with complete confidence It also serves as a practical reference for IT support and technical personnel Bonus electronic content includes Practice exams with hundreds of accurate questions More than an hour of video training featuring Mike Meyers Performance based simulations that prepare you for the performance based questions on the exam A collection of Mike's favorite free PC tools Key Features include Written with the in the trenches voice and clarity Mike Meyers is known for Features pre assessment tests exam tips and Try This sections to reinforce difficult topics Includes a coupon for 10% off of the exam fee a 37 value

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**Mike Meyers CompTIA A+ Guide to Managing and Troubleshooting PCs, 4th Edition (Exams 220-801 & 220-802) Mike Meyers, 2012-08-22**

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**CompTIA IT Fundamentals (ITF+) Study Guide** Quentin Docter, 2018-08-17 NOTE The name of the exam has changed from IT Fundamentals to IT Fundamentals ITF However the FC0 U61 exam objectives are exactly the same After the book was printed with IT Fundamentals in the title CompTIA changed the name to IT Fundamentals ITF We have corrected the title to IT Fundamentals ITF in subsequent book printings but earlier printings that were sold may still show IT Fundamentals in the title Please rest assured that the book content is 100% the same The ultimate study guide for the essential entry level IT cert The CompTIA IT Fundamentals Study Guide Exam FC0 U61 Second Edition is your ideal companion for comprehensive exam preparation Covering 100 percent of the latest exam objectives this book contains everything you need to know to pass with flying colors the first time Clear concise language breaks down fundamental IT concepts to help you truly grasp important concepts and practical examples illustrate how each new skill is applied in real world situations You'll learn your way around hardware and software conduct installations and connect to networks to get a workstation up and running smoothly you'll also develop the knowledge base

needed to identify compatibility and security issues mitigate risks and conduct all important preventative maintenance that keeps the end user problem free The CompTIA IT Fundamentals certification validates your skills as a systems support specialist and gets your foot in the door to a successful IT career This book is your ultimate preparation resource with expert guidance backed by online tools to take your preparation to the next level Master 100 percent of Exam FC0 U61 objectives Learn real world applications and practical on the job skills Know what to expect with exam highlights and review questions Includes 1 year free access to Sybex s online study tools including flashcards chapter tests and a practice exam all supported by Wiley s support agents who are available 24x7 via email or live chat to assist with access and login questions The IT department is instrumental in keeping any organization on its feet As support staff you will be called upon to assess and repair common problems set up and configure workstations address individual issues and much more If you decide to continue on to more advanced IT positions the CompTIA IT Fundamentals certification is a great springboard if you re ready to launch your career the CompTIA IT Fundamentals Study Guide offers complete practical prep to help you face the exam with confidence

*HWM* ,2007-04 Singapore s leading tech magazine gives its readers the power to decide with its informative articles and in depth reviews *CompTIA A+ Certification All-in-One Exam Guide, Tenth Edition (Exams 220-1001 & 220-1002)* Mike Meyers,2019-04-16 This bestselling on the job reference and test preparation guide has been fully revised for the new 2019 CompTIA A exam objectives This fully revised and updated resource offers complete coverage of the latest release of CompTIA A exams 220 1001 220 1002 You ll find learning objectives at the beginning of each chapter exam tips practice exam questions and in depth explanations Designed to help you pass the CompTIA A exams with ease this definitive guide also serves as an essential on the job IT reference Covers all exam topics including how to Work with CPUs RAM BIOS motherboards power supplies and other personal computer components Install configure and maintain hard drives Manage input devices and removable media Set up upgrade and maintain all versions of Windows Troubleshoot and fix computer problems Install printers and other peripherals Configure and secure mobile devices Connect to the Internet Set up wired and wireless networks Protect your personal computer and your network Implement virtualization and cloud based technologies Online content includes Practice exams for 1001 1002 More than one hour of free video training TotalSim simulations of performance based questions Mike Meyers favorite PC tools and utilities

**Mike Meyers' CompTIA A+ Guide to Managing and Troubleshooting PCs, Seventh Edition (Exams 220-1101 & 220-1102)** Mike Meyers, Travis A. Everett, Andrew Hutz, 2022-11-11 Fully Updated Essential Skills for a Successful IT Career Created and edited by the leading authority on CompTIA A certification and training this four color guide will help you pass CompTIA A exams 220 1101 and 220 1102 and become a certified IT professional with proven expertise in hardware and software Mike Meyers CompTIA A TM Guide to Managing and Troubleshooting PCs Seventh Edition offers complete coverage of the latest exam objectives You ll get on the job tips end of chapter review questions and hundreds of photographs and illustrations Learn how to Work with



CPUs RAM BIOS motherboards power supplies and other personal computer components Install configure and maintain hard drives Manage input devices and removable media Set up upgrade and maintain Microsoft Windows Troubleshoot and fix computer problems Establish users and groups Set up video and multimedia cards Administer smartphones tablets and other mobile devices Set up wired and wireless networks Connect to the Internet Protect your personal computer and your network Install printers and other peripherals Implement virtualization and cloud based technologies Understand safety and environmental issues Online content includes Practice exams for 220 1101 and 220 1102 with hundreds of questions One hour of free video training from Mike Meyers TotalSim simulations of performance based questions A collection of Mike Meyers favorite freeware and shareware PC tools and utilities Each chapter features Learning objectives Photographs and illustrations Real world examples Try This and Cross Check exercises Key terms highlighted Tech Tips Notes and Warnings Exam Tips End of chapter quizzes and lab projects

CompTIA A+ Certification All-in-One Exam Guide, Eleventh Edition (Exams 220-1101 & 220-1102) Mike Meyers, Travis A. Everett, Andrew Hutz, 2022-11-16 This bestselling on the job reference and test preparation guide has been fully revised for new 2022 exam objectives This fully revised and updated resource offers complete coverage of the latest release of CompTIA A exams 220 1101 220 1102 You ll find learning objectives at the beginning of each chapter exam tips practice exam questions and in depth explanations Designed to help you pass the CompTIA A exams with ease this definitive guide also serves as an essential on the job IT reference Covers all exam topics including how to Work with CPUs RAM BIOS motherboards power supplies and other personal computer components Install configure and maintain hard drives Manage input devices and removable media Set up upgrade and maintain Microsoft Windows Troubleshoot and fix computer problems Install printers and other peripherals Configure and secure mobile devices Connect to the Internet Set up wired and wireless networks Protect your personal computer and your network Implement virtualization and cloud based technologies Online content includes Practice exams for 1101 1102 with hundreds of questions One hour of video training from Mike Meyers TotalSim simulations of performance based questions A collection of Mike Meyers favorite shareware and freeware PC tools and utilities

**Mike Meyers' CompTIA A+ Guide to Managing and Troubleshooting PCs, Sixth Edition (Exams 220-1001 & 220-1002)** Mike Meyers, 2019-05-10 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Fully Updated Essential Skills for a Successful IT Career Written by the leading authority on CompTIA A certification and training this four color guide will help you pass CompTIA A exams 220 1001 and 220 1002 and become a certified IT professional with proven expertise in hardware and software Mike Meyers CompTIA A Guide to Managing and Troubleshooting PCs Sixth Edition offers complete coverage of the latest exam objectives You ll get on the job tips end of chapter review questions and hundreds of photographs and illustrations Learn how to Work with CPUs RAM BIOS motherboards power supplies and other personal computer components Install configure and maintain hard

drives Manage input devices and removable media Set up upgrade and maintain all versions of Windows Troubleshoot and fix computer problems Establish users and groups Set up video and multimedia cards Administer smartphones tablets and other mobile devices Set up wired and wireless networks Connect to the Internet Protect your personal computer and your network Install printers and other peripherals Implement virtualization and cloud based technologies Understand safety and environmental issues

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*CompTIA A+ Certification All-in-One Exam Guide, 8th Edition (Exams 220-801 & 220-802)* Mike Meyers, 2012-08-22 The bestselling CompTIA A reference and test preparation guide fully revised for the new 2012 exam topics Written by the leading authority on CompTIA A certification and training the new edition of this trusted resource offers complete up to date coverage of CompTIA A exams 220 801 and 220 802 You ll find learning objectives at the beginning of each chapter exam tips practice exam questions and in depth explanations Prepare for the exams with confidence McGraw Hill is a Gold Level CompTIA Authorized Partner offering Authorized CompTIA Approved Quality Content to give you the competitive edge on exam day This comprehensive guide also serves as an essential on the job reference after certification Covers all exam objectives including how to Work with CPUs RAM BIOS settings motherboards power supplies and other PC components Install configure and troubleshoot hard drives Manage input devices and removable media Install upgrade and troubleshoot Windows XP Windows Vista and Windows 7 Troubleshoot all common PC problems Install video and multimedia cards Work with smartphones tablets and other mobile devices Install and configure wired and wireless networks Connect to the Internet Protect your PC and your network Install configure and manage printers Work with virtualization technologies Understand safety and environmental issues

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