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Qnap ts-451 user manual

Ask your question herePage 23View the manual for the QNAP TS-1231X here, for free. 49 5.5 TVS-473, TVS-673, TVS-873 ..... Network Expansion Card Installation6.1 TVS-463, TS-531P, TS-531X, TVS-663, TS-831X, TVS-863, TS-563, TS-879 Pro, TS-1079 Pro, TS-463U, TS-463U-RP6.2 TS-16356.3 TVS-473, TVS-673, TVS-8736.4 TS-431XU, TS-463U, TS-463U-RP, TVS-471 Series6.5 TS-831XU, TS-863U, TS-863U-RP, TS-1231XU, TS-1263U, TS-1263U-RP SeriesChapter 7. 57 5.8 IS-453S ..... Ask your question herePage 22View the manual for the QNAP TS-1231X here, for free. View the manual for the QNAP TS-1231X here, for free. 39 Chapter 3. Ask your question here 55 5.7 TS-251+, TS-251, TS-451+, TS-451, TS-251A, TS-451A ..... Ask your question herePage 14View the manual for the QNAP TS-1231X here, for free. 817.1.2. TS-1635 ..... 53 5.6 TS-431U, TS-X31XU SERIES, TS-451U, TS-X53U, TS-X63U SERIES (4/8/12-BAY) .. 83 7.1.3. TS-453Bmini, TS-453Mini ..... Install Power Supply UnitTechnical SupportGNU GENERAL PUBLIC LICENSEAppendix A: Product Compliance ClassBelow you will find the product specifications and the manual specifications of the QNAP TS-1231X.Processor model Alpine AL-314Internal memory type DDR3Total installed storage capacity 48 TBEthernet LAN (RJ-45) ports 2BrandQNAPModelTS-1231X | TS-1231XU-4G/48TB-REDPROProductserverLanguageEnglishFiletypeUser manual (PDF)Processor model Alpine AL-314Processor cores 4Processor family Annapurna LabsProcessor frequency 1.7 GHzProcessor architecture ARM Cortex-A15Internal memory type DDR3Internal memory 4 GBMaximum RAM supported 16 GBMemory slots 2Flash memory 512 MBEthernet LAN YesEthernet LAN data rates 10,100,1000,10000 Mbit/sEthernet LAN data rate supported (max) 10000 Mbit/sCopper ethernet cabling technology 10BASE-T, 100BASE-TX, 1000BASE-TWi-Fi -DHCP client YesDHCP server YesiSCSI support YesJumbo frames support YesSupported network protocols CIFS/SMB, AFP (v3.3), NFS(v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, SMSCWake-on-LAN ready YesDynamic DNS (DDNS) YesTotal installed storage capacity 48 TBStorage drive capacity 4000 GBStorage drives installed YesInstalled storage drive type HDDNumber of storage drives installed 12Supported storage drive types HDD & SSDNumber of storage drives supported 12Storage drive interface Serial ATA IIIStorage drive size 2.5/3.5 "Hot-swap drive bays YesRAID support YesRAID levels 0, 1,5, 6,10, JBODOnline RAID migration YesOnline RAID expansion YesSupported file systems FAT32, HFS+, NTFS, ext3, ext4Bad block scan YesEthernet LAN (RJ-45) ports 2USB port YesUSB 2.0 ports quantity 0USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity 4Fiber optic connector SFP+Fiber ports quantity 2Reset button YesOn/off switch YesNoise level 47.6 dBBuilt-in optical drive NoCard reader integrated NoManagement protocols SNMP, TelnetSecurity algorithms 256-bit AES, HTTPS, SSH, SSL/TLSAccess Control List (ACL) YesWeb-based management YesBuilt-in UPnP AV media server YesBuilt-in iTunes server YesBuilt-in FTP server YesBrowser supported Microsoft Internet Explorer 10+, Google Chrome, Apple Safari 7+, Mozilla FirefoxSystem log YesS.M.A.R.T. support YesType NASDevice class Small & Medium BusinessBackup function YesBackup features Cloud, iSCSI LUNRemotely operated YesUniversal Plug and Play (UPnP) YesChassis type Rack (2U)Cooling type ActiveProduct color Black, GreyNumber of fans 2 fan(s)Fan diameter 70 mmLED indicators YesBuilt-in display NoCable lock slot YesCable lock slot type KensingtonWidth 482 mmHeight 89 mmDepth 534 mmWeight 11300 gPackage weight 13360 gOperating temperature (T-T) 0 - 40 °COperating relative humidity (H-H) 5 - 95 %Power supply location Built-inPower supply unit (PSU) capacity 250 WNumber of power supply units 1Redundant power supply (RPS) support NoAC input voltage 100-240 VAC input frequency 50 - 60 HzFan voltage 12 VOperating system installed QNAP Turbo SystemOperating system version 4.3Windows operating systems supported YesLinux operating systems supported YesMac compatibility YesMac operating systems supported YesServer operating systems supported Windows Server 2012, Windows Server 2012 R2Cables included AC, LAN (RJ-45)Quick installation guide YesNumber of screws 84 show moreCan't find the answer to your question in the manual? Ask your question herePage 15View the manual for the QNAP TS-1231X here, for free. 8 Safety Warnings ..... Install and Hot-swap Hard Drives ..... Ask your question herePage 13View the manual for the QNAP TS-1231X here, for free. This user manual is applicable to the following Turbo NAS models: HS-210, HS-251, HS-251+, TS-112P, TS-131, TS-212P, TS-231, TS-231+, TS-251, TS-251+, TS-251C, TS-251A, TS-253 Pro, TS-431, TS-431+, TS-431U, TS-451, TS-451+, TS-451S, TS-451U, TS-451A, TS-453 Pro, TS-453S Pro (formerly SS-453 Pro), TS-453U, TS-453U-RP, TS-463U, TS-463U-RP, TVS-463, TS-470U-SP/RP, TVS-473, TS-531P, TS-563, TS-651, TS-653 Pro, TVS-663, TS-531X, TVS-673, TS-831X, TS-851, TS-853 Pro, TS-853S Pro (formerly SS-853 Pro), TS-853U, TS-853U-RP, TS-863U, TS-863U-RP, TVS-863, TVS-863+, TVS-882ST, TS-870U-RP, TVS-873, TS-879 Pro, TS-879U-RP, TS-EC879U-RP, TS-1079 Pro, TS-1253U, TS-1253U-RP, TS-1263U, TS-1263U-RP, TS-1270U-RP, TS-1279U-RP, TS-EC1279U-RP, TS-1635, TS-1679U-RP, TS-EC1679U-RP, IS-453S, TS-453Bmini, TS-453mini, TAS-168, TAS-268, TS-253A, TS-453A, TS-653A, TS-853A, TS-128, TS-228, TBS-453A, TS-131P, TS-231P, TS-431P, TS-431XU, TS-431XU-RP, TS-831XU, TS-831XU-RP, TS-1231XU, TS-1231XU-RP NOTE • The “Turbo NAS”& “Turbo vNAS” are hereafter referred to as “NAS”. Ask your question herePage 26View the manual for the QNAP TS-1231X here, for free. 63 6.2 TS-1635 ..... Ask your question herePage 16View the manual for the QNAP TS-1231X here, for free. 85 Page 9View the manual for the QNAP TS-1231X here, for free. Ask your question herePage 4View the manual for the QNAP TS-1231X here, for free. Network Expansion Card Installation ..... Ask your question herePage 2 2 Thank you for choosing QNAP products! This user manual provides description of the hardware of the Turbo NAS and relevant guideline of certain functions. 10 Chapter 1. Ask your question herePage 17View the manual for the QNAP TS-1231X here, for free. 60 Chapter 6. 63 6.1 TVS-463, TS-531P, TS-531X, TVS-663, TS-831X, TVS-863, TS-563, TS-879 PRO, TS-1079 PRO, TS-463U, TS-463U-RP ..... Ask your question herePage 25View the manual for the QNAP TS-1231X here, for free. • The product you purchased may not support certain functions dedicated to specific models. Ask your question herePage 24View the manual for the QNAP TS-1231X here, for free. LED and Alarm Buzzer Specifications ..... 81 7.1 INSTALL HARD DRIVES ..... If you have a 25 Mb/s connection this means that theoretically you should be able to download 25 MB per second.Yes, the manual of the QNAP TS-1231X is available in English .Is your question not listed? Install M.2 SSDsChapter 9. LED and Alarm Buzzer SpecificationsChapter 5. Ask your question herePage 21View the manual for the QNAP TS-1231X here, for free. Ask your question herePage 5View the manual for the QNAP TS-1231X here, for free. Upgrade Memory on QNAP Turbo NAS (RAM Module Installation)5.1 TS-453Bmini, TS-453mini (4-bay)5.2 TBS-453A5.3 TS-451S, TS-531P, TS-531X, TS-651, TS-831X, TS-851, TS-x53/x53S Pro, TS-563, TVS-882S, TVS-882ST, TVS-x63, TS-x53Aseries (2/4/6/8-bay)5.4 TS-16355.5 TVS-473, TVS-673, TVS-8735.6 TS-431U, TS-x31XU series, TS-451U, TS-x53U, TS-x63U series (4/8/12-bay)5.7 TS-251+, TS-251, TS-451+, TS-451, TS-251A, TS-451A5.8 IS-453SChapter 6. Power Button and Reset Button Behavior ..... Power Button and Reset Button BehaviorChapter 3. RAID RecoveryChapter 10. Page 3View the manual for the QNAP TS-1231X here, for free. Upgrade Memory on QNAP Turbo NAS (RAM Module Installation) 44 5.1 TS-453BMINI, TS-453MINI (4-BAY) ..... 11 Chapter 2. Ask your question herePage 18View the manual for the QNAP TS-1231X here, for free. Do you have a question about the QNAP TS-1231X or do you need help?Ask your question hereTable of ContentsSafety WarningsChapter 1. Install and Hot-swap Hard Drives7.1 Install Hard Drives7.1.1. TS-x51, TS-x51A, TVS-x63, TS-563, TS-x53 Pro, TS-651, TS-831X, TS-851, TS-531X, TS-531P, TS-x53A, TS-x31, TS-x31+, TS-x31P, TS-431U, TS-x31XU, TS-451U, TS-x53U, TS-x63U7.1.2. TS-16357.1.3. TS-453Bmini, TS-453Mini7.1.4. TVS-473, TVS-673, TVS-8737.1.5. TS-112P, TS-212P and TS-251C7.1.6. TAS-168, TAS-268, TS-128, TS-2287.1.7. IS-453S7.2 Hot-swap Hard DrivesChapter 8. Ask your question herePage 10View the manual for the QNAP TS-1231X here, for free. USB One Touch Copy ..... Other products and company names mentioned herein may be the trademarks of their respective companies. Ask your question herePage 8 8 Table of Contents ..... Ask your question herePage 11View the manual for the QNAP TS-1231X here, for free. Ask your question herePage 20View the manual for the QNAP TS-1231X here, for free. Use the LCD PanelChapter 11. Ask your question herePage 12View the manual for the QNAP TS-1231X here, for free. This manual comes under the category servers and has been rated by 1 people with an average of a 7.6. This manual is available in the following languages: English. 48 5.4 TS-1635 ..... 41 Chapter 5. 71 6.4 TS-431XU, TS-463U, TS-463U-RP, TVS-471 SERIES ..... CPU and Memory SpecificationsChapter 2. 74 6.5 TS-831XU, TS-863U, TS-863U-RP, TS-1231XU, TS-1263U, TS-1263U-RP SERIESChapter 7. USB One Touch CopyChapter 4. QNAP and the QNAP logo are registered trademarks of QNAP Systems, Inc. Ask your question herePage 6View the manual for the QNAP TS-1231X here, for free. CPU and Memory Specifications ..... 46 5.3 TS-451S, TS-531P, TS-531X, TS-651, TS-831X, TS-851, TS-X53/X53S PRO, TS-563, TVS-882S, TVS-882ST, TVS-X63, TS-X53ASERIES (2/4/6/8-BAY) ..... 67 6.3 TVS-473, TVS-673, TVS-873 ..... Please read carefully and strictly adhere to the instructions of the manual. • Information presented is subject to change without notice. 40 Chapter 4. 81 7.1.1. TS-x51, TS-x51A, TVS-x63, TS-563, TS-x53 Pro, TS-651, TS-831X, TS-851, TS-531X, TS-531P, TS-x53A, TS-x31, TS-x31+, TS-x31P, TS-431U, TS-x31XU, TS-451U, TS-x53U, TS-x63U ..... • All features, functionality, and other product specifications are subject to change without prior notice or obligation. Ask your question herePage 7View the manual for the QNAP TS-1231X here, for free. Ask your question herePage 19View the manual for the QNAP TS-1231X here, for free. You may find the answer to your question in the FAQs about the QNAP TS-1231X below.The QNAP TS-1231X has a weight of 11300 g.The QNAP TS-1231X has a height of 89 mm.The QNAP TS-1231X has a width of 482 mm.The QNAP TS-1231X has a depth of 534 mm.The download speed on the internet depends on the type of connection you have. • No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, mechanical, electronic, photocopying, recording, or otherwise, without prior written permission of QNAP Systems, Inc. 44 5.2 TBS-453A .....

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