



Asus DS300i Quick Start Manual

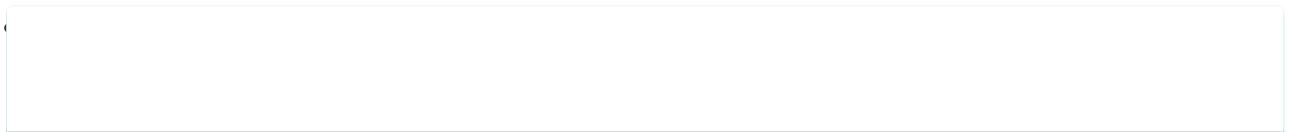
Quick start guide

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46

Table Of Contents

47



•

[Table of Contents](#)

•

Bookmarks

Quick Links

[Download this manual](#) See also: [User Manual](#)



ASUS Storage

DS300f, DS300i

Quick Start Guide

Version 1.0

© 2011 ASUSTek COMPUTER INC.(Taiwan) All Rights Reserved.

[Table of Contents](#)

[Next Page](#)

1
2
3
4
5

Related Manuals for Asus DS300i

[Storage Asus DS300i User Manual](#)

User manual (449 pages)

[Server Asus DS300f Quick Start Manual](#)

Quick start guide (17 pages)

[Storage Asus DL External HDD User Manual](#)

DI 2.5" external hard disk drive (63 pages)

[Storage Asus DS300j User Manual](#)

User manual (56 pages)

[Storage Asus DS300j G2 Series User Manual](#)

Disk array subsystems (262 pages)

[Storage Asus SDRW-08D2S-U Quick Installation Manual](#)

(10 pages)

[Storage Asus WHD-A1 User Manual](#)

Wireless hard drive (38 pages)

[Storage Asus Leather External HDD Setup Manual](#)

Setup guide (2 pages)

[Storage Asus VC65-C Series Installation Manual](#)

(18 pages)

[Storage Asus Travelair-AC User Manual](#)

Wireless (32 pages)

[Storage ASUS Hyper Express User Manual](#)

(24 pages)

[Storage Asus Travelair N User Manual](#)

Wireless storage (21 pages)

[Storage Asus RS720-E7/RS12 Configuration Manual](#)

(20 pages)

[Storage Asus KR External HDD User Manual](#)

User manual (14 pages)

[Storage Asus FrontLinker User Manual](#)

(10 pages)

[Storage Asus WL-HDD User Manual](#)

Wireless hdd for 802.11g/b wireless clients (58 pages)

Summary of Contents for Asus DS300i

[Page 1: Quick Start Guide](#)

ASUS Storage DS300f, DS300i Quick Start Guide Version 1.0 © 2011 ASUSTek COMPUTER INC.(Taiwan) All Rights Reserved.

[Page 2](#) RJ11-to-DB9 serial data cable • Screws for disk drives (70 pieces) A Battery Backup Unit (BBU) is optional on the ASUS Storage subsystem. In the event of a power failure, the BBU powers the controller cache to preserve any data it contains. Warning This is a Class A product.

[Page 3](#) If so configured, a hot spare drive will automatically replace a failed drive, securing the fault-tolerant integrity of the logical drive. The self-contained hardware-based RAID logical

drive provides maximum performance in a compact external enclosure. Figure 2. ASUS Storage DS300f rear view Dual Power Supplies SAS RAID Controller...

[Page 4](#) ASUS Storage DS300f, DS300i Quick Start Guide Figure 3. ASUS Storage DS300i rear view Dual Power Supplies SAS RAID Controller For a description of the LEDs, see pages 28 and 30.

[Page 5](#) The LCD panel mounts to the left ear of the ASUS Storage enclosure. Align the connector on the left bracket of the ASUS Storage enclosure to the connector on the back of the LCD panel, as shown in Figure 4.

[Page 6](#) Figure 5. Attach the LCD panel to the ASUS Storage enclosure The LCD screen activates when the ASUS Storage boots. See “Task 7: Connecting the Power” on page 28. Go to “Task 3: Mounting ASUS Storage in a Rack” on page 7.

[Page 7](#) At least two persons are required to safely lift, place, and attach the ASUS Storage unit into a rack system. • Do not lift or move the ASUS Storage unit by the handles, power supplies or the controller units. Hold the subsystem itself.

[Page 8](#) Handles mount outside the rack post outside the rack post To install the ASUS Storage subsystem into a rack with the supplied mounting rails: Check the fit of the mounting rails in your rack system. See page 9, Figure 7.

[Page 9](#) Task 3: Mounting ASUS Storage in a Rack Figure 7. Rack mount assembly diagram Rack front post Rack rear post Alignment pins two on each flange Rear rail Front rail Support for subsystem Rail attaching screws Inside of post (not included) Note that only the front rail has a support for the subsystem.

[Page 10: Number Of Drives Required](#)

Drive Slot Numbering You can install any suitable disk drive into any slot in the enclosure. The diagram below shows how ASUS Storage’s drive slots are numbered. Whether you have the original or plus carriers, the slots are numbered the same.

[Page 11: Installing Your Disk Drives](#)

Task 4: Installing Disk Drives Figure 8. ASUS Storage drive slot numbering Install all of the drive carriers on the ASUS Storage enclosure to ensure proper airflow, even if you do not populate all the carriers with disk drives. Installing Your Disk Drives To install your disk drives: Remove a disk drive carrier.

[Page 12](#) This completes disk drive installation. Go to “Task 5: Making Data and Management Connections” on page 13. Caution ASUS Storage supports disk drive hot-swapping. To avoid hand contact with an electrical hazard, do not remove more than one drive carrier a time.

[Page 13](#) Ethernet RJ45 iSCSI Port connectors. See “iSCSI Direct Attached Storage (DAS)” on page 19 for connection instructions. Data Path The ASUS Storage DS300f controller has two (2) FC Port connectors and one (1) SFF-8088 SAS Expansion Port connector. See page 14, Figure 10. To establish the data path: Install an FC transceiver into the FC data port on the ASUS Storage controller.

[Page 14](#) ASUS Storage DS300f, DS300i Quick Start Guide Connect the FC transceiver on the ASUS Storage DS300f controller to the Host PC or Server. See also “SAS JBOD Expansion” on page 25. Management Path The ASUS Storage DS300f controller has one (1) Ethernet RJ-45 Management Port connector.

[Page 15](#) Task 5: Making Data and Management Connections Figure 11. FC DAS data and management connections Host PC or Server Network Switch Management Cables ASUS Storage DS300f FC card Data Cable Management Port FC Data Ports (2)

[Page 16: Fibre Channel Storage Area Network \(San\)](#)

RJ45 iSCSI Port connectors. See “iSCSI Storage Area Network (SAN)” on page 22 for connection instructions. Data Path The ASUS Storage DS300f controller has two (2) FC Port connectors and two (2) Ethernet RJ45 iSCSI Port connectors. See page 14, Figure 10. To establish the data path:

Install an FC transceiver into the FC data port on the ASUS Storage controller.

[Page 17](#) Task 5: Making Data and Management Connections Attach the other end of the Ethernet cable to the Management Port on the ASUS Storage DS300f subsystem. If you have multiple ASUS Storage subsystems, Host PCs or Servers, repeat steps 1 and 2 as required.

[Page 18](#) ASUS Storage DS300f, DS300i Quick Start Guide Figure 12. FC SAN data and management connections FC card FC card Host PCs or Management Cables Servers Data Cables Network Switch FC Switch ASUS Storage DS300f ASUS Storage DS300f Management Port FC Data Ports (2)

[Page 19](#) These instructions also apply to the iSCSI Ports on ASUS Storage Fibre Channel subsystems. Configuring a Data Path The ASUS Storage DS300i controller has four (4) Ethernet RJ45 iSCSI Port connectors. See page 20, Figure 13. To establish the data path: Attach one end of an Ethernet cable to the GbE (iSCSI) NIC in the Host PC.

[Page 20](#) ASUS Storage DS300f, DS300i Quick Start Guide Figure 13. ASUS Storage D300i data and management ports iSCSI Data Port 3 iSCSI Data Port 4 iSCSI Data Port 2 SAS Expansion iSCSI Data Port 1 Port (to DS300j) Management Port...

[Page 21](#) Task 5: Making Data and Management Connections Figure 14. iSCSI DAS data and management connections Host PC or Server Standard NIC GbE NIC Management Cables Standard Network Switch Data Cable ASUS Storage DS300i Management Port iSCSI Data Ports (4)

[Page 22: Iscsi Storage Area Network \(San\)](#)

Storage (NAS). See “Task 8: Installing Smart NAS Console” on page 32. Configuring a Data Path Depending on the model, the ASUS Storage DS300i controller has two (2) or four (4) Ethernet RJ45 iSCSI Port connectors. See page 20, Figure 13. To establish the data path: Attach one end of an Ethernet cable to the GbE (iSCSI) NIC in the Host PC.

[Page 23](#) Task 5: Making Data and Management Connections Configuring a Management Path The ASUS Storage DS300i controller has one (1) Ethernet RJ-45 Management Port connector. See page 20, Figure 13. To establish the management path: Attach one end of an Ethernet cable to the standard NIC in the Host PC.

[Page 24](#) ASUS Storage DS300f, DS300i Quick Start Guide Figure 15. iSCSI SAN data and management connections Standard Standard GbE NIC GbE NIC Host PCs or Servers Standard Network Switch Network Switch Management Cables Data Cables ASUS Storage DS300i iSCSI Data Ports (4)

[Page 25: Sas Jbod Expansion](#)

Port on the ASUS DS300j expansion units. If you have another ASUS DS300j expansion unit, attach one end of the SFF-8088 to SFF-8088 SAS cable to the SAS OUT Port of the first ASUS DS300j to the SAS IN Port of the second ASUS DS300j.

[Page 26](#) ASUS Storage DS300f, DS300i Quick Start Guide Figure 16. ASUS Storage DS300j expansion data connections SAS Expansion Port SAS data cable ASUS Storage DS300i SAS OUT Port ASUS DS300j SAS IN Port ASUS DS300j After you complete your data and management connection, go to “Task 6: Setting...

[Page 27](#) Task 6: Setting Up Serial Cable Connections Serial communication enables the Command Line Interface (CLI) and Command Line Utility (CLU) on your PC to monitor and control the ASUS Storage subsystem. The ASUS Storage package includes a RJ11-to-DB9 serial data cable.

[Page 28: Front Panel Leds](#)

JBOD expansion units first. When the power is switched on, the LEDs and LCD screen light up. Front Panel LEDs When boot-up is finished and the ASUS Storage DS300f or DS300i subsystem is functioning normally:

- Power, Global Enclosure Status, and Global RAID Status LEDs display green continuously.

[Page 29: Controller Leds](#)

Task 7: Connecting the Power Controller LEDs When boot-up is finished and the ASUS Storage subsystem is functioning normally: • Battery, and Controller status LEDs display green continuously. • Ethernet LEDs display green or flash depending on your network connection.

[Page 30](#) ASUS Storage DS300f, DS300i Quick Start Guide Figure 21. ASUS Storage DS300i Controller LEDs Controller Status Dirty Cache Fan 2 JBOD Expansion Fan 1 USB 2 iSCSI Ports Battery USB 1 Fan 1 Fan 2 There are two LEDs on each Drive Carrier. They report the presence of a disk drive, activity of the drive, and the drive's current condition.

[Page 31: Lcd Panel](#)

ASUS Storage's power supply. System is Initializing At first, the LCD screen displays When the ASUS Storage DS300f or DS300i subsystem is fully booted and running under normal conditions, the LCD screen shows ASUS Storage and IP address, as shown in Figure 23.

[Page 32](#) PC now. When you restart your PC, Smart NAS Console runs automatically. Then click the Finish button. For more information, see "Chapter 5: Smart NAS Console" and "Appendix A: Setting-up NAS Network Drives" In the ASUS Storage DS300f, DS300i User Manual.

[Page 33: Setting Up The Serial Connection](#)

"Task 6: Setting Up Serial Cable Connections" on page 27. You must use the CLI or CLU to assign an IP address to the ASUS Storage to enable a network connection for ASUS Storage Management.

[Page 34: Default Ip Addresses](#)

Figure 24. Viewing the management port's MAC address. MAC Address Default IP Addresses ASUS Storage ships from the factory a default Management Port IP address of 192.168.0.1 and default iSCSI Port IP addresses of 10.0.0.2 through 10.0.0.5. You must change these addresses to work with your network.

[Page 35: Setting Up With The Clu](#)

Task 9: Setting the IP Address Setting up with the CLU At the administrator@cli> prompt, type menu and press Enter. The CLU main menu appears. Figure 25. CLU main menu With Quick Setup highlighted, press Enter. The first Quick Setup screen enables you to make Date and Time settings. Setting system date and time To make date and time settings: Press the arrow keys to highlight System Date.

[Page 36: Making Automatic Ip Settings](#)

You can configure your RAID arrays and logical drives using the CLU at this time. ASUS suggests that you highlight Skip the Step and Finish and press Enter. Then create your disk array using ASUS Storage Management. See "Task 10: Creating Logical Drives with ASUS Storage Management"...

[Page 37: Setting Up With The Lcd](#)

Task 9: Setting the IP Address Go to "Task 10: Creating Logical Drives with ASUS Storage Management" on page 39 Setting up with the LCD The LCD Panel displays the current IP address during normal operation. If you did not install the LCD Panel, see "Task 2: Installing the LCD Panel (Optional)" on page 5.

[Page 38](#) ASUS Storage DS300f, DS300i Quick Start Guide Make the needed changes the same as in step 5. After you have set the last (extreme right) digit, press the button. The display says Save Network Setting? Press the button to confirm.

[Page 39: Logging Into Asus Storage Management](#)

ASUS Storage Management uses an HTTP connection ..http:// • Enter the ASUS Storage's IP address 192.168.10.85 Together, your entry looks like this: http://192.168.10.85 Secure Connection •...

[Page 40: Choosing A Language](#)

The User Name and Password are case sensitive. Figure 27. ASUS Storage Management log-in screen After sign-in, the ASUS Storage Management opening screen appears. If there are any

unconfigured physical drives in the enclosure, an Array Configuration menu will also appear. See page 41, Figure 29.

[Page 41: Creating Your Logical Drives](#)

Task 10: Creating Logical Drives with ASUS Storage Management Figure 28. Clicking “Language” on the ASUS Storage Management banner Creating Your Logical Drives On a newly activated ASUS Storage subsystem, there are no disk arrays or logical drives. To create a logical drive: Click the Disk Arrays icon, then click the Create tab.

[Page 42](#) ASUS Storage DS300f, DS300i Quick Start Guide Automatic When you choose the Automatic option, the following parameters appear on the screen: • Disk Arrays - The number of physical drives in the disk array, their ID numbers, configurable capacity, and the number of logical drives to be created •...

[Page 43](#) Task 10: Creating Logical Drives with ASUS Storage Management Click the Update button. Or check the Automatic Update box and updates will occur automatically. The following parameters display: • Disk Arrays - The number of physical drives in the disk array, their slot...

[Page 44](#) ASUS Storage DS300f, DS300i Quick Start Guide • For DAS and SAN, enter an Alias (name) for the logical drive. An Alias is optional. Use letters, numbers, space between words, and underscore. An Alias is optional. • iSCSI only. For NAS, enter a Mount Point (name) for the logical drive.

[Page 45: Logging Out Of Asus Storage Management](#)

Using ASUS Storage Management over the Internet The above instructions cover connections between ASUS Storage and your company network. It is also possible to connect to a ASUS Storage from the Internet. Your MIS Administrator can tell you how to access your network from outside the firewall.

[Page 46: Contacting Technical Support](#)

ASUS Storage DS300f, DS300i Quick Start Guide Contacting Technical Support ASUS Technical Support provides several support options for ASUS users to access information and updates. We encourage you to use one of our electronic services, which provide product information updates for the most efficient service and support.

This manual is also suitable for:

[Ds300f](#)