

TABLE OF CONTENTS

CHAPTER 1 Getting Started

Introduction to the SAHARA System.....	1
Unpacking the SAHARA System.....	2
Item Checklist.....	3
Setting Up the SAHARA System	3
A Look at the Front the Computer.....	5
Attaching the Rubber Foot Set	6
A Look at the Rear of the Computer.....	6
Rear of the SAHARA System.....	7
Display.....	9
General Features.....	9
2D Acceleration.....	9
3D Acceleration.....	10
Motion Video Acceleration	10
Software Support.....	11
Display Capabilities	12
Audio.....	13
Features	13
Ethernet PCI Bus (LAN)	14
Features	14

CHAPTER 2 Getting Ready to Go

Introduction	15
System Connections	15
Operating System.....	16
Diskless LAN Station Setup	17
Power-On Operations	17
Diskette Operations	18
Inserting/Removing Diskettes	18
Diskette Types.....	19
Backing Up Master Diskettes	19
Resetting the Computer	20
Power-Off Operations.....	20

CHAPTER 3 Making Upgrades Easy

Before You Begin.....	23
Removing the Chassis Cover.....	24
Removing the Front Panel Chassis.....	26
Installing the Hard Disk Drive (HDD)	27
Installing the CD-ROM Drive	32
Re-installing the Chassis Cover.....	37

CHAPTER 4 BIOS Setup

Main CMOS Setup	40
Load Defaults	40
Standard CMOS Setup	41
Auto Detection of Hard Disks on Bootup	42
BIOS Features Setup	44
Chipset Features Setup	46
Power Management Setup.....	47
PNP/PCI Configuration Setup.....	51
Load BIOS Defaults	53
Load Setup Defaults	53
Integrated Peripherals	54
Supervisor Password and User Password	56
IDE HDD Auto Detection	56
Save and Exit Setup.....	57
Exit Without Saving	58

CHAPTER 5 Troubleshooting

Determining Problem Causes	59
BIOS-Related Errors.....	60

APPENDIX A System Specifications

Product Features	63
Technical Specifications.....	64

APPENDIX B Installation Procedures

1). Set System Jumpers.....	66
Components That Concern Installation	67
CMOS Clear: CMOS_CLR.....	69
Flash ROM Type Select: EP1, EP2.....	69
2). Install RAM Modules.....	70
SDRAM.....	70
RAM Module Configuration	70
Install DIMMs	71
Remove DIMMs.....	72
3). Install the Central Processing Unit (CPU).....	72
CPU Cartridge and Heatsink with Fan Installation (for Pentium® II CPU).....	72
CPU and Passive Heatsink Installation (for Celeron™ CPU)	74
CPU to Bus Frequency Ratio: FREQ	75
Intel Pentium® II CPUs	75
4). Install Expansion Cards.....	75
5). Connect Cables and Power Supply	79
Connectors.....	79
Serial Port Connectors: COM1, COM2	79
PS/2 Keyboard and Mouse Connector: MS, KB.....	80
Printer Connector: LPT.....	80
Universal Serial Bus Connector: USB	81
Audio Port Connectors: LINE_OUT, LINE_IN, MIC_IN.....	81
RJ45 Connector: LAN	82
Infrared Connector: IR (optional)	82
VGA Connector: VGA.....	83
Joystick/MIDI Connector: GAME	83
CPU Fan Connector: CPU_FAN	84
Floppy Diskette Drive Connector: FDD	85
IDE HDD Device Connector: PRIMARY	86
Hard Disk Drive Power Connector: HDD_PW	86
CD-ROM Drive Connector: CD_ROM	87
Front Panel Block Connector: F_PNL	87
ATX Power Connector: AT_PWR.....	88

APPENDIX C Driver Utilities

Starting Installation	89
LANDesk® Client Manager (optional)	89
Two Options of the LDCM Setup	89
Desktop Management Interface (DMI)	90
Starting DMI	90
Intel PIIX IDE Bus Master Driver	92
BIOS Flash Software	92
VGA Display Drivers	93
Audio Drivers	93
CD-ROM Drive Software Drivers (optional)	93
LAN Controller Driver	94
Setup Procedures for Diskless LAN Station	94