

Contents

Chapter 1 Specification	10
1-1 Mainboard Specifications	11
1-1.1 CPU Socket	11
1-1.2 System Chipsets	11
1-1.3 Memory	11
1-1.4 AWARD BIOS V6.0	11
1-1.5 Accelerated Graphics Port (AGP) Interface	11
1-1.6 Advanced System Power Management:	12
1-1.7 Multi-I/O Functions:	12
1-1.8 Expansion Slots	12
1-1.9 Hardware Monitor on board	13
1-1.10 AC'97 Audio Codec on board	13
1-1.11 CNR Slot on board	13
1-1.12 Redstorm Overclocking Technology (optional).....	13
1-1.13 Form Factor	13
1-2 Mainboard Specification Table	14
1-3 Chipset System Block Diagram	15
Chapter 2 Hardware Setup	17
2-1 CPU Installation with Socket 478	18
2-2 Pentium 4 CPU Fan Installation:	19
2-3 Memory Installation	20
2-3.1 To Install DDR SDRAM Module for this Mainboard :	20
2-3.2 To Remove a DIMM:	21
2-3.3 Indicator ZD1 for DIMM On Power:	21
2-4 AGP (Accelerated Graphics Port) Card Installation :	22
2-5 HDD/FDD Installation	23

2-6 ATX V 2.03 Power Supply Installation	25
2-7 Jumper and Switch Settings	26
2-7.1 Switch 1 CPU Clock Select	27
2-7.2 JBAT1 Clear CMOS.....	28
2-7.3 Jp10 CPU Clock Select:	28
2-7.4 Jp16 Suspend to RAM (STR)	29
2-7.5 Jp11 Flash ROM Write Protection Select	29
2-8 Other Connectors Configuration	30
2-8.1 On Board FAN Connectors	30
2-8.2 WOL1 Wake On LAN	31
2-8.3 CD-ROM Audio Connector CD_IN1	31
2-8.4 Chassis Panel Connector	32
2-8.5 Thermal Sensor Connector RT1, RT2	33
2-8.6 Complex Header	34
2-8.7 Communication And Networking Riser Slot (CNR)	36
2-8.8 USB Ports and USB Header (Header USB 3)	37
2-8.9 PS/2 Mouse And PS/2 Keyboard	37
2-9 IRQ Description	38
Chapter 3 Software Setup	40
3-1 Open Up Support CD:	41
3-2 Proceed to VIA 4-IN-1 Drivers Installation	42
3-3 Proceed to AC'97 AUDIO Driver Installation	44
3-4 Proceed to Hardware Monitor Installation	45
Chapter 4 BIOS Setup	48
4-1 About BIOS Setup	49
4-2 To Run BIOS Setup	49
4-3 About CMOS	49
4-4 The POST (Power On Self Test)	49

4-5 To Upgrade BIOS	50
4-5.1 Before Upgrading BIOS	50
4-5.2 Upgrade Process.....	50
4-6 BIOS SETUP --- CMOS Setup Utility	53
4-6.1 CMOS Setup Utility	53
4-6.2 Standard CMOS Setup	54
4-6.3 Advanced BIOS Features	57
4-6.4 Advanced Chipset Features	61
4-6.5 Integrated Peripherals	66
4-6.6 Power Management Setup	72
4-6.7 PNP / PCI Configuration	78
4-6.8 SmartDoc Anti-burn Shield (PC Health status)	81
4-6.9 Frequency/Voltage Control	83
4-6.10 Load Optimized Defaults	85
4-6.11 SET SUPERVISOR / USER PASSWORD	86
4-6.12 SAVE & EXIT SETUP	87
4-6.13 EXIT WITHOUT SAVING	87
APPENDICES	89
Appendix-1 Identify Mainboard Model Number	90
Appendix-2 Technical Terms	91