

# CONTENT

<b>CHAPTER 1 INTRODUCTION .....</b>	<b>8</b>
1-1 MAINBOARD SPECIFICATION .....	9
1-1.1 PROCESSOR .....	9
1-1.2 CHIPSET .....	9
1-1.3 AWARD BIOS V6.0 SUPPORTING .....	9
1-1.4 SOUND CONTROLLER .....	9
1-1.5 POWER MANAGEMENT .....	9
1-1.6 FULL FEATURED ACCELERATED GRAPHICS PORTS (AGP) CONTROLLER .....	10
1-1.7 MULTI-I/O FUNCTION .....	10
1-1.8 EXPANSION SLOTS .....	10
1-1.9 ADVANCED HIGH PERFORMANCE SDR/DDR DRAM .....	10
CONTROLLER .....	10
1-1.10 FORM FACTOR .....	11
1-1.11 HARDWARE MONITOR .....	11
1-2 MAINBOARD LAYOUT .....	12
1-3 CHIPSET DIAGRAM .....	13
<b>CHAPTER 2 HARDWARE SETUP .....</b>	<b>15</b>
2-1 CPU INSTALLATION .....	16
2-2 MEMORY INSTALLATION .....	17
2-3 ACCELERATED GRAPHICS PORT(AGP) PRO INSTALLATION ...	19
2-4 HDD/FDD INSTALLATION .....	20
2-5 SWITCH SETTING FOR CPU FREQUENCY AND VOLTAGE	22
2-5.1 Information On AMD Socket 462 Processor (Model 4, 5 Products) ...	22
2-5.2 Information On AMD Socket 462 Processor (Model 6, 7 Products) ...	23

2-5.3 Frequency Ratio Select (By SW1 DIP1-DIP5) .....	24
2-5.4 Processor Core Voltage Select (By SW2 DIP1-DIP6) .....	25
2-5.5 CPU External Frequency Setting (By SW3) .....	26
<b>2-6 JUMPER SETTING FOR DEVICES ON BOARD .....</b>	<b>27</b>
2-6.1 JP1/JP2 Memory Module Voltage Select .....	27
2-6.2 JP17 Power Lost Resume .....	28
2-6.3 JP18/19 AGP Voltage Select .....	28
2-6.4 JBAT1 For Clear CMOS Data .....	29
<b>2-7 CONNECTORS CONFIGURATIONS .....</b>	<b>30</b>
2-7.1 On Board FAN Connector (FAN1, FAN2, FAN3, FAN4) .....	30
2-7.2 WOL1 Wake On LAN .....	31
2-7.3 CD-ROM Audio Connector (JCD_IN1) .....	31
2-7.4 Thermal Sensor Connector (RT2) .....	32
2-7.5 Complex Header CON1 .....	33
2-7.6 ATX Power Supply Connector .....	34
2-7.7 Chassis Panel Connector .....	35
2-7.8 Smart Card Reader Connector (SCR1) .....	36
2-7.9 Communication And Networking Riser Slot (CNR) .....	37
2-7.10 USB Header (USB2/USB3 Header) .....	38
2-7.11 PS/2 Mouse And PS/2 Keyboard .....	38
<b>CHAPTER 3 SOFTWARE SETUP .....</b>	<b>40</b>
3-1 OPEN UP THE SUPORT CD AND CHOOSE DRIVERS AND UTILITIES .....	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

<b>CHAPTER 4 BIOS SETUP .....</b>	<b>48</b>
4-1 WHAT IS BIOS SETUP .....	49
4-2 HOW TO RUN BIOS SETUP .....	49
4-3 WHAT IS CMOS .....	49
4-4 WHAT IS POST .....	49
4-5 BIOS UPGRADE .....	49
4-5.1 BEFORE UPGRADING BIOS .....	50
4-5.2 UPGRADE PROCESS .....	50
4-6 BIOS SETUP --- CMOS SETUP UTILITY .....	54
4-6.1 CMOS SETUP UTILITY .....	54
4-6.2 STANDARD CMOS SETUP .....	55
4-6.3 ADVANCED BIOS FEATURES .....	58
4-6.4 ADVANCED CHIPSET FEATURES .....	62
4-6.5 INTEGRATED PERIPHERALS .....	67
4-6.6 POWER MANAGEMENT SETUP .....	73
4-6.7 PNP / PCI CONFIGURATION .....	79
4-6.8 SMARTDOC ANTI-BURN SHIELD .....	82
4-6.9 FREQUENCY/VOLTAGE CONTROL .....	84
4-6.10 LOAD OPTIMIZED DEFAULTS .....	87
4-6.11 SET SUPERVISOR / USER PASSWORD .....	87
4-6.12 SAVE & EXIT SETUP .....	88
4-6.13 EXIT WITHOUT SAVING .....	88
<b>APPENDICES .....</b>	<b>90</b>
APPENDIX-1 IDENTIFY BIOS VERSION & BIOS PART NUMBER ...	91
APPENDIX-2 IDENTIFYING MAINBOARD MODEL NUMBER ....	92
APPENDIX-3 TECHNICAL TERMS .....	93