



HOT-603

AMD K-6 Processor Based
PCI Main Board
User's Guide

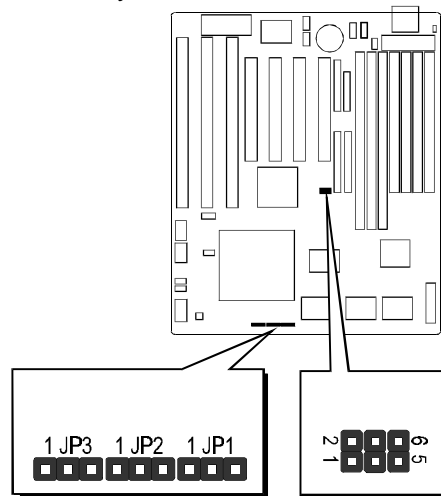
HOT-603 Installation guide

- 1) CPU configuration according to the tables. The voltage instructions of the CPUs may be changed at a later date without prior notification by the manufacturer.


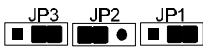

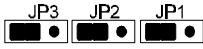

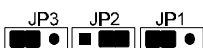

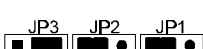

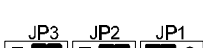

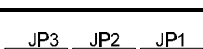

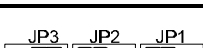

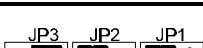

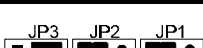

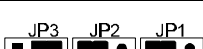

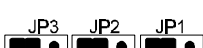

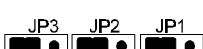

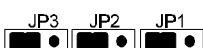
Example 1: Four-Pin-Jumper:  Pin 2 & 4 are closed by jumper cap.

Example 2: Six-Pin-Jumper.  Pin 3 & 4 are closed by jumper cap.

- 2) Memory-Configuration: the 72pin sockets can be filled with pairs of same Fast-Page-Mode- and/or EDO-modules in sizes of 4, 8, 16, 32 and 64 MB (60 or 70 ns). The 168pin sockets can be equipped with one or two DIMM-modules in size of 8, 16, 32, 64 or 128 MB (FPM, EDO or SDRAM). Do not populate both 5V SIMM modules and 3.3V DIMM modules at the same time!
- 3) AT and ATX Power Supply connectors are both available on HOT-603 Main Board.
- 4) Power on the computer and press immediately will allow you to enter BIOS setup program.

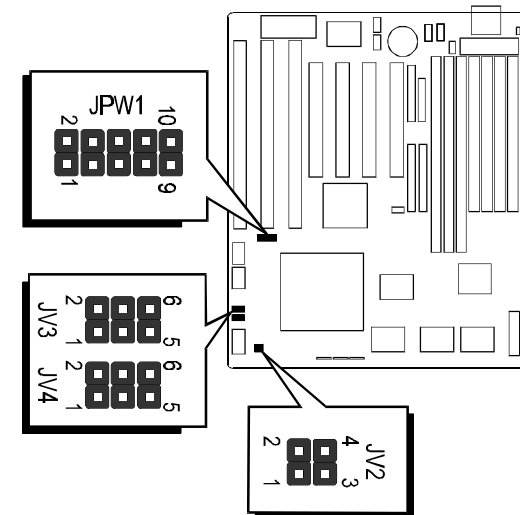


CPU Clock Configuration

Processors	JC1	System Clock / Multiplier	Multiplier JP3 / JP2 / JP1
AMD-K6 266 MHz		66 MHz x 4	
AMD K6 233 MHz Pentium MMX 233 MHz		66 MHz x 3.5	
AMD-K6 200 MHz AMD-K5 PR200 Pentium MMX 200 MHz Pentium 200 MHz Cyrix/IBM 6x86MX PR233		66 MHz x 3	
Cyrix/IBM 6x86L P200+ Cyrix/IBM 6x86 P200+		75 MHz x 2	
AMD-K6 166 MHz AMD-K5 PR166 Pentium MMX 166 MHz Pentium 166 MHz Cyrix/IBM 6x86MX PR200		66 MHz x 2.5	
AMD-K5 PR150 Pentium MMX 150 MHz Pentium 150 MHz Cyrix/IBM 6x86MX PR166		60 MHz x 2.5	
Pentium 133 MHz Cyrix/IBM 6x86L P166+ Cyrix/IBM 6x86 P166+		66 MHz x 2	
Pentium 120 MHz Cyrix/IBM 6x86L P150+ Cyrix/IBM 6x86 P150+		60 MHz x 2	
Cyrix/IBM 6x86 PR133+		55 MHz x 2	
Cyrix/IBM 6x86 P120+		50 MHz x 2	
AMD K5 PR100/PR133 Pentium 100 MHz		66 MHz x 1.5	
AMD-K5 PR90/PR120 Pentium 90 MHz		60 MHz x 1.5	
AMD-K5 PR75 Pentium 75 MHz		50 MHz x 1.5	

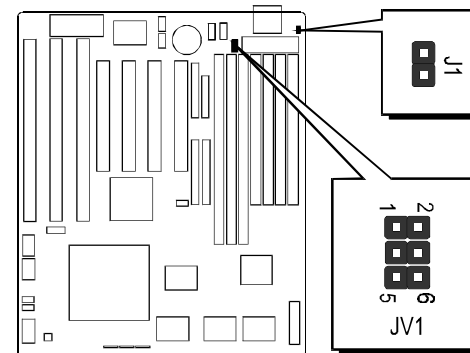
CPU Voltages Configuration

Voltage			CPU Type	Jumper-Setting			
Type	Vcore	Vio		JPW1	JV3	JV4	JV2
Single	3.52V	3.52V	3.52V AMD K5 ABx Pentium P54C VRE Cyrix/IBM 6x86	2 10 1 9	2 6 1 5	2 6 1 5	2 4 1 3
	3.3V	3.3V	Pentium P54C STD Cyrix/IBM 6x86	2 10 1 9			
Dual	3.2V	3.3V	AMD-K6 233 / 266 MHz	2 10 1 9			
	2.9V	3.3V	AMD-K6 166 / 200 MHz	2 10 1 9	2 6 1 5	2 6 1 5	2 4 1 3
	2.8V	3.3V	Pentium P55C MMX Cyrix 6x86L Cyrix 6x86MX	2 10 1 9			



Power Supply Type Select

Power Supply Type	Outline	JV1	J1
12-Pin AT Type			
20-Pin ATX Type			



HOT-603 Specification

CPU Function

- ☐ AMD K5 processors : PR75 ~ PR200
- ☐ AMD K6 processors : 166 ~ 266 MHz
- ☐ Pentium processors P54C : 75 ~ 200 MHz
- ☐ Pentium processors P55C (MMX) : 166 ~ 233 MHz
- ☐ Cyrix/IBM 6x86/L, 6x86MX processors : P120 ~ P233

Chipset

- ☐ AMD-640 Chipset
- ☐ Provides four 72-pin SIMM sockets for 5V EDO and Fast Page Mode SIMMs. Supports 4MB, 8MB, 16MB, 32MB, 64MB 72-pin SIMMs ranging from 8MB to 512MB.
- ☐ Provides three 168-pin DIMM sockets for 3.3V Sync. DRAM, EDO or Fast Page Mode DIMMs. Supports 8MB, 16MB, 32MB, 64MB, 128MB 168-pin DIMMs.

Cache Memory

- ☐ Integrated L2 write-back cache controller
 - 1024KB direct Mapped Pipeline Burst Cache

Power Management Function

- ☐ Provides four power management modes : Full on, Doze, Standby, and Suspend
- ☐ Supports Microsoft APM
- ☐ Provides EPMI (External Power Management Interrupt) pin

Expansions

- ☐ 32-bit PCI bus slot x 4
- ☐ 16-bit ISA bus slot x 3
- ☐ 2-channel PCI IDE port
 - Support up to 4 IDE devices
 - Supports "Ultra 33 " synchronous DMA mode transfer up to 33 MBytes/sec
 - PIO Mode 4, DMA Mode 2 transfers up to 22 MB/sec
 - Integrated 8 x 32-bit buffer for PCI IDE burst transfers
- ☐ One floppy port
- ☐ One parallel port
 - Supports **SPP** (PS/2 compatible bidirectional Parallel Port), **EPP** (Enhanced Parallel Port), and **ECP** (Extended Capabilities Port) high performance parallel port.
- ☐ Two serial ports
 - Supports 16C550 compatible UARTS.
 - Supports IrDA (Infra-red) communication.
- ☐ One PS/2 mouse port
- ☐ Two USB (Universal Serial Bus) ports

System BIOS

- ☐ Award PnP Bios v4.51PG
 - Bundled with Symbios Login (NCR) SDCM V4.0 SCSI Bios

Board Design

- ☐ AT form factor, Dimension 220mm x 280mm

