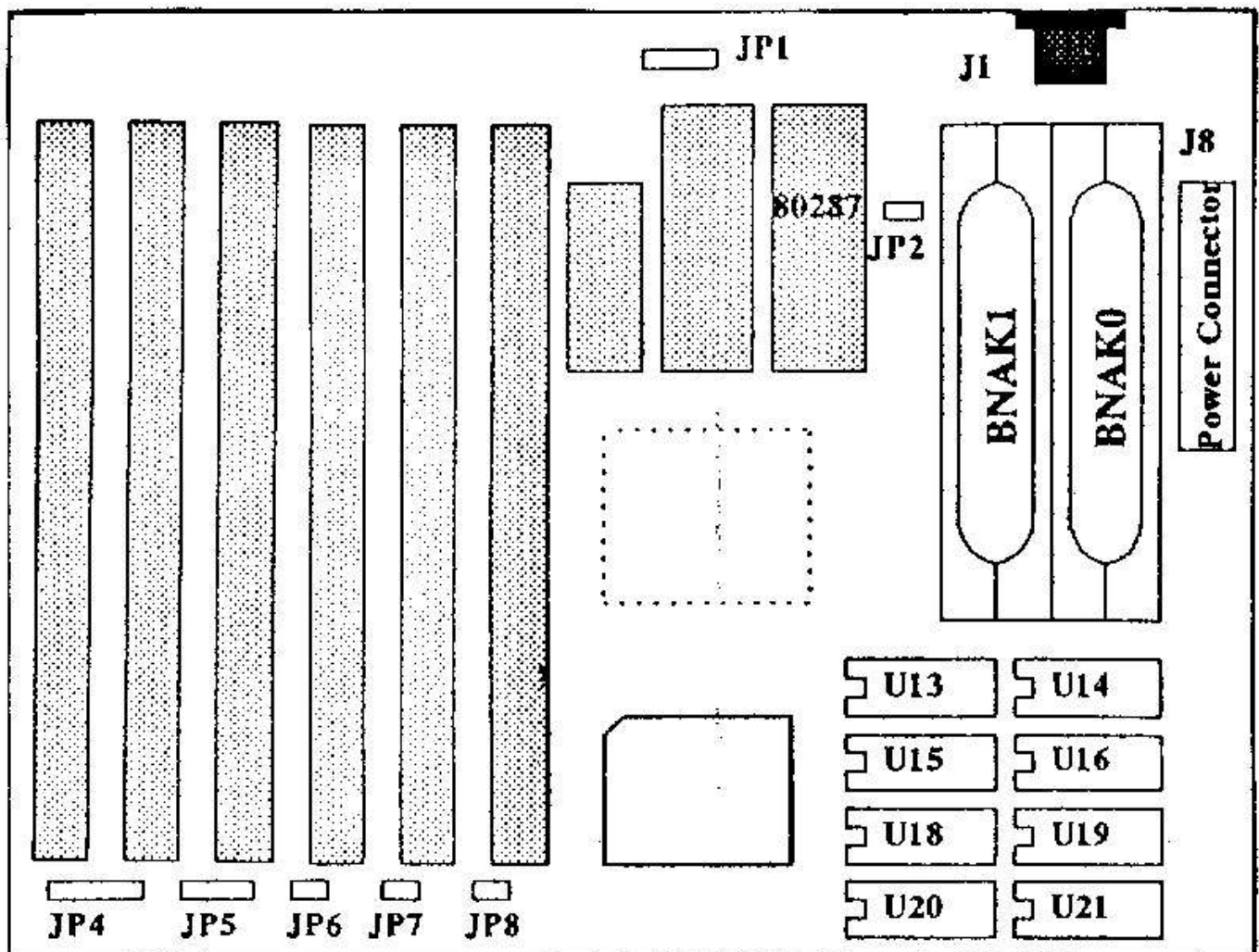# M219
80286 Mainboard
User's Guide

Jumper, Connector, and Socket Locations

KEY FEATURES

- Single chip for 80286 16/20/25 MHZ system
- Socket support for 80287 coprocessor
- Page mode and block interleave DRAM management
- Memory configurations from 512KB to 16MB using **combinations** of 256KB,512K,1M and 4M SIMM modules
- Support hardware and software turbo switch
- Support shadow RAM for system and video BIOS
- Six 16-bit I/O slots
- External and rechargeable battery-backed **CMOS RAM for real** time clock and system configuration
- PCB with dimensions of 220mm x 170mm

JUMPER SETTING AND CONNECTORS

JP1. External battery connector
Pin 1: VDD(6V)   Pin 4: Gnd
Pin 2,3: Rechargeable battery pin

JP2. Display type select
Close: Color   **Open: Monochrome**

JP4. Power LED and keylock connector
Pin 1: LED power   **Pin 2: Not used**
Pin 3: Gnd   **Pin 4: Keyboard inhibiter**
Pin 5: Gnd

JP5. Speaker connector
Pin 1: Data out   **Pin 2: Not used**
Pin 3: Gnd   Pin 4: +5Vdc

JP6. Turbo LED connector
Pin 1: +Anode   Pin 2: -cathode

JP7. Turbo switch connector
Close: Turbo speed   Open: Low Speed

You can also switch the clock speed using software **control via** keyboard commonds.

CTRL,ALT,[+]:Press these three keys simultaneously to select Turbo Mode.

CTRL,ALT,[−]:Press these three keys simultaneously to select LOW Speed Mode.

′JP8. Reset connector
Close: Reset   Open: Not reset

MEMORY ARCHITECTURE

The main board contains 2 banks of memory. A total of 8 modes are available.

MODE	DRAM TYPE		TOTAL MEMORY
	BANK0	BANK1	
1	256K	x	512KB
2	256K	256K	1MB
3	512K	x	1MB
4	512K	512K	2MB
5	1M	x	2MB
6	1M	1M	4MB
7	4M	x	8MB
8	4M	4M	16MB