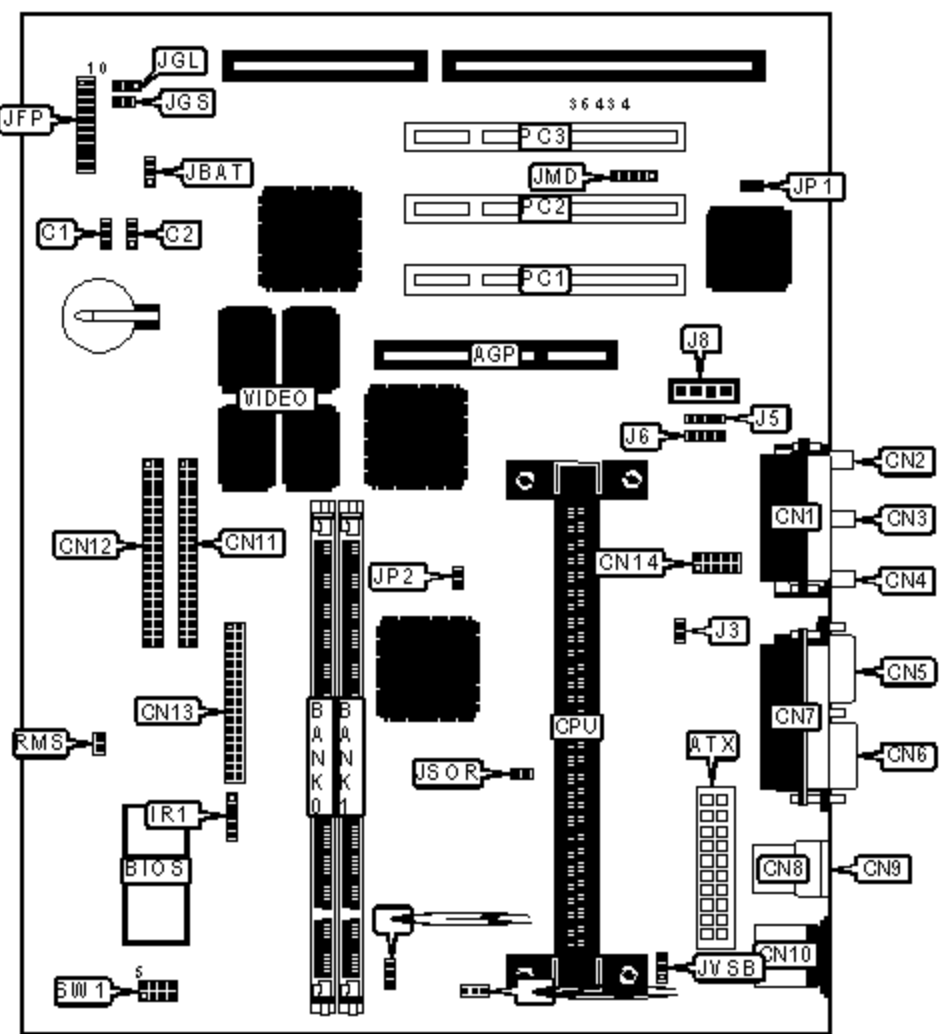


MICRO-STAR INTERNATIONAL CO.,LTD.

MS-6147

Device Type	Mainboard
Processor	Pentium II/Celeron
Processor Speed	233/266/300/333/350/400/450MHz
Chip Set	Intel 440BX
Video Chip Set	ATI
Maximum Onboard Memory	512MB (SDRAM supported)
Maximum Video Memory	8MB
Audio Chip Set	Creative
Cache	0/128/256/512KB (located on the CPU)
BIOS	Unidentified
Dimensions	244mm x 192mm
I/O Options	32-bit PCI slots (3), floppy drive interface, game/MIDI port, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), IR connector, VGA port, USB connectors (2), ATX power connector, AGP slot, line in, line out, microphone in, wavetable connector, audio in - CD-ROM, wake on LAN connector, wake on modem connector



CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	Serial port 2	CN14
ATX power connector	ATX	IR connector	IR1

Chassis fan power	C1	Chassis intrusion connector	J3
Wake on LAN connector	C2	Auxiliary in	J5
CPU fan power	C3	Modem in connector	J6
Power fan power	C4	Audio in - CD-ROM	J8
Game/MIDI port	CN1	Keylock	JFP/pins 1 & 10
Microphone in	CN2	IDE interface LED	JFP/pins 3 & 13
Line in	CN3	Power LED	JFP/pins 4 - 6
Line out	CN4	Soft off power supply	JFP/pins 7 & 8
VGA port	CN5	Speaker	JFP/pins 13 - 16
Serial port 1	CN6	Reset switch	JFP/pins 17 & 18
Parallel port	CN7	Green PC LED	JGL
USB connector 1	CN8	Green PC connector	JGS
USB connector 2	CN9	Wake on modem connector	JMD
PS/2 mouse port	CN10	Temperature sensor	JSOR
IDE interface 2	CN11	32-bit PCI slots	PC1 - PC3
IDE interface 1	CN12	Remote power on/off switch	RMS
Floppy drive interface	CN13		

USER CONFIGURABLE SETTINGS

Function		Label	Position
»	CMOS memory normal operation	JBAT	Pins 1 & 2 closed
	CMOS memory clear	JBAT	Pins 2 & 3 closed
	Power on select boot up by switch	JP1	Closed
	Power on select immediate boot up/last state	JP1	Open
	On board video enabled	JP2	Closed
	On board video disabled	JP2	Open
»	Keyboard power on disabled	JVSB	Pins 2 & 3 closed

DIMM CONFIGURATION

Size	Bank 0	Bank 1
8MB	(1) 1M x 64	None
16MB	(1) 2M x 64	None
16MB	(1) 1M x 64	(1) 1M x 64
24MB	(1) 2M x 64	(1) 1M x 64
32MB	(1) 4M x 64	None
32MB	(1) 2M x 64	(1) 2M x 64
40MB	(1) 4M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64
64MB	(1) 8M x 64	None
64MB	(1) 4M x 64	(1) 4M x 64
72MB	(1) 8M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64
128MB	(1) 8M x 64	(1) 8M x 64

DIMM CONFIGURATION (CON'T)

Size	Bank 0	Bank 1
128MB	(1) 16M x 64	None
136MB	(1) 16M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64
256MB	(1) 16M x 64	(1) 16M x 64
256MB	(1) 32M x 64	None

264MB	(1) 32M x 64	(1) 1M x 64
272MB	(1) 32M x 64	(1) 2M x 64
288MB	(1) 32M x 64	(1) 4M x 64
320MB	(1) 32M x 64	(1) 8M x 64
384MB	(1) 32M x 64	(1) 16M x 64
512MB	(1) 32M x 64	(1) 32M x 64
Note: Board accepts SDRAM memory.		

CACHE CONFIGURATION

Note: 256KB/512KB cache is located on the Pentium II CPU. 128KB cache is located on the Celeron 300A & 333 CPU.

VIDEO MEMORY CONFIGURATION

Note: Video memory is factory installed and is not configurable.

CPU SPEED SELECTION (CELERON)

CPU speed	Clock speed	Multiplier	SW1/pins 1 & 5	SW1/pins 2 & 6
233MHz	66MHz	3.5x	Closed	Open
266MHz	66MHz	4x	Closed	Closed
300MHz	66MHz	4.5x	Closed	Open
333MHz	66MHz	5x	Closed	Closed

CPU SPEED SELECTION (CELERON CONT)

CPU speed	Clock speed	Multiplier	SW1/pins 3 & 7	SW1/pins 4 & 8
233MHz	66MHz	3.5x	Open	Closed
266MHz	66MHz	4x	Closed	Open
300MHz	66MHz	4.5x	Closed	Open
333MHz	66MHz	5x	Open	Open

333MHz

66MHz

5x

Open

Open

CPU SPEED SELECTION (PENTIUM II)

CPU speed	Clock speed	Multiplier	SW1/pins 1 & 5	SW1/pins 2 & 6
233MHz	66MHz	3.5x	Closed	Open
266MHz	66MHz	4x	Closed	Closed
300MHz	66MHz	4.5x	Closed	Open
333MHz	66MHz	5x	Closed	Closed
350MHz	100MHz	3.5x	Closed	Open
400MHz	100MHz	4x	Closed	Closed
450MHz	100MHz	4.5x	Closed	Open

CPU SPEED SELECTION (PENTIUM II, CON'T)

CPU speed	Clock speed	Multiplier	SW1/pins 3 & 7	SW1/pins 4 & 8
233MHz	66MHz	3.5x	Open	Closed
266MHz	66MHz	4x	Closed	Open
300MHz	66MHz	4.5x	Closed	Open
333MHz	66MHz	5x	Open	Open
350MHz	100MHz	3.5x	Open	Closed
400MHz	100MHz	4x	Closed	Open
450MHz	100MHz	4.5x	Closed	Open