Appendixs

A. Specifications

Processor

- Intel Mobile Pentium III 450/500MHz (with SpeedStep technology)

Memory

- Provide 64-bit data bus system memory
- Two PC 100, 144 pin SODIMM sockets, support 3.3V Sync DRAM SODIMM
- Expandable memory up to 256MB, depend on 32/64/128 MB SODIMM Module

BIOS

- Insyde BIOS
- One 256KB(29F020) Flash ROM

LCD

- XGA TFT flat panel 13.3”/14.1”

Display

- AGP 2X
- Complete 64-bit hardware 2D / 3D Accelerator Graphics Engine
- Motion Compensation
- High quality TV-out (6 Line buffer quality) with MacroVision® V7.01 anti-copy technology
- 8MB display memory SGRAM type (100MHz)
- Support TFT panel resolution up to 1024x768x16M

- CRT resolution up to 1280x1024x16M (non-interlaced)
- Two display devices, CRT and LCD
- Support Zoomed Video Port
- Support Software MPEG II

Storage

- One removable intelligent bay for 3.5" 3-mode FDD / 12.7 mm(h) LS-120/ 2.5" 12.7mm(h) 2nd HDD
- One easy change bay for DVD-ROM(12.7mm) / CD-ROM(24X speed or up)
- Removable 2.5" 12.7mm (h) HDD
- Support Master mode IDE, PIO mode 4/ATA-33 (Ultra DMA)

Audio

- 3D stereo enhancement sound system
- Full duplex support
- Compatible with Sound-Blaster PRO version 3.01
- Built in microphone
- Built in 2 speakers
- FM music systhesizer 16 bits stereo sound system

PC Card Sockets

- Two PCMCIA 3.3V/5V sockets, type IIx2 or type III x1
- Support Zoom Video Port (Socket A)/CardBus

Input/Output

- Built in Trackpad (PS/2)
- Dual USB ports
- One IEEE 1394 port (option)
- One serial port
- One parallel port (LPT1)
- One Infrared (FIR)
- One external CRT monitor
- One External keyboard / Mouse (PS/2 type) port
- One line-in jack
- One headphone jack
- One microphone jack
- One RJ-11 or Rj-45 jack (option)
- One (120 pins) connector for Port Replicator
- DC-in jack

Communication

- Wireless Infrared: 4M bps data rate/ 1cm ~1M operating distance, and compliant with IrDA 1.1 or ASKIR (SHARP standard)

Power Management

- Support APM v1.2
- Support suspend to disk
- Battery low suspend
- Resume from alarm time/modem ring

Power

- Full Range AC adapter – AC in 100~240V,47~63Hz.

Size & Weight

- 316(w) x 256(d) x 39.5(h) mm^3
- 3.5 kg

Keypoard

- A4 size Win 95 keyboard

Option

- 300D DVD-ROM Drive (12.7mm)
- 3001S Lithium-Ion smart Battery Pack from Kapok
- 3002 Ni-MH Battery Pack from Kapok
- 3006 Port Replicator
- 2004 Car Adapter
- 3007 LS-120 120 MB Floppy Drive (12.7mm)

B. I/O Port Pin Assignments

Parallel Port

Pin	Description	Pin	Description
1	Strobe#	2	Data 0
3	Data 1	4	Data 2
5	Data 3	6	Data 4
7	Data 5	8	Data 6
9	Data 7	10	ACK#
11	Busy	12	Paper Empty
13	Select	14	Auto Feed#
15	Error#	16	Initialize#
17	Select In	18	Ground
19	Ground	20	Ground
21	Ground	22	Ground
23	Ground	24	Ground
25	Ground		

RS-232 C Serial Port

Pin	Description
1	DCD (DATA Carrier Detect)
2	RXD (Received Data)
3	TXD (Transmitted Data)
4	DTR (Data Terminal Ready)
5	GND (Signal Ground)
6	DSR (Data Set Ready)
7	RTS (Request To Send)
8	CTS (Clear To Send)
9	RI (Ring Indicator)

Monitor Port

Pin	Description	Pin	Description	Pin	Description
1	RED	6	GND	11	NC
2	GREEN	7	GND	12	DDCDA
3	BLUE	8	GND	13	HSYNC
4	NC	9	NC	14	VSYNC
5	GND	10	GND	15	DDCLK

PS/2 Type Port

Pin	Description
1	EKDA
2	EMDA
3	GND
4	VCC
5	EKCLK
6	EMCLK
7	GND
8	GND
9	GND

S-Video Jack

Pin	Description
1	GND
2	XCOMP
3	XLUMA
4	XCRMA

USB Port

Port A

Pin	Description
1	USB_VCCA
2	USBP1-
3	USBP1+
4	GND

Port B

Pin	Description
5	USB_VCCB
6	USBP0-
7	USBP0+
8	GND

PC Card Sockets/Socket A

Pin	Description		Pin	Description	
	CardBus	16Bit Card		CardBus	16Bit Card
A1	GND	GND	A40	A__VPP2	A__VPP2
A2	GND	GND	A41	A__CCLK	A__A16
A3	A__CAD0	A__D3	A42	GND	GND
A4	A__CCD1#	A__CD1#	A43	A__CTRDY#	A__A22
A5	A__CAD14	A__D4	A44	A__CIRDY#	A__A15
A6	A__CAD2	A__D11	A45	A__CFRAME#	A__A23
A7	A__CAD3	A__D5	A46	A__CC/BE2#	A__A12
A8	A__CAD4	A__D12	A47	A__CAD17	A__A24
A9	GND	GND	A48	A__CAD18	A__A7
A10	A__CAD5	A__D6	A49	GND	GND
A11	A__CAD6	A__D13	A50	A__CAD19	A__A25
A12	A__CAD7	A__D7	A51	A__CAD20	A__A6
A13	RFU	A__D14	A52	A__CVS2	A__VS2#
A14	A__CC/BE0#	A__CE1#	A53	A__CAD21	A__A5
A15	A__CAD8	A__D15	A54	A__CRST	A__RESET
A16	GND	GND	A55	A__CAD22	A__A4
A17	A__CAD9	A__A10	A56	A__CSERR#	A__WAIT#
A18	A__CAD10	A__CE2#	A57	GND	GND
A19	A__CAD11	A__OE#	A58	A__CAD23	A__A3
A20	A__CVS1	A__VS1#	A59	A__CREQ#	A__INPACK
A21	A__CAD12	A__A11	A60	A__CAD24	A__A2
A22	GND	GND	A61	A__CC/BE3#	A__REG#
A23	A__CAD13	A__IORD#	A62	A__CAD25	A__A1
A24	A__CAD14	A__A9	A63	A__ CAUDIO#	A__BVD2
A25	A__CAD15	A__IOWR#	A64	A__CAD26	A__A0
A26	A__CC/BE1#	A__A8	A65	GND	GND
A27	A__CAD16	A__A17	A66	A__CSTSCHG	A__BVD1
A28	GND	GND	A67	A__CAD27	A__D0
A29	A__CPAR	A__A13	A68	A__CAD28	A__D8
A30	RFU	A__A18	A69	A__CAD29	A__D1
A31	A__CPERR#	A__A14	A70	A__CAD30	A__D9
A32	A__CBLOCK#	A__A19	A71	RFU	A__D2
A33	A__CGNT#	A__WE#	A72	A__CAD31	A__D10
A34	A_CSTOP#	A_A20	A73	GND	GND
A35	A__CINT#	A__READY	A74	A__ CCLKRUN#	A__WP
A36	A__ CDEVSEK#	A__21	A75	A__CCD2#	A__CD2#
A37	A__VCC	A__VCC	A76	GND	GND
A38	A__VCC	A__VCC	A77	GND	GND
A39	A__VPP1	A__VPP1			

PC Card Sockets/Socket B

Pin	Description		Pin	Description	
	CardBus	16Bit Card		CardBus	16Bit Card
B1	GND	GND	B40	B__VPP2	B__VPP2
B2	GND	GND	B41	B__CCLK	B__A16
B3	B__CAD0	B__D3	B42	GND	GND
B4	B__CCD1#	B__CD1#	B43	B__CTRDY#	B__A22
B5	B__CAD14	B__D4	B44	B__CIRDY#	B__A15
B6	B__CAD2	B__D11	B45	B__CFRAME#	B__A23
B7	B__CAD3	B__D5	B46	B__CC/BE2#	B__A12
B8	B__CAD4	B__D12	B47	B__CAD17	B__A24
B9	GND	GND	B48	B__CAD18	B__A7
B10	B__CAD5	B__D6	B49	GND	GND
B11	B__CAD6	B__D13	B50	B__CAD19	B__A25
B12	B__CAD7	B__D7	B51	B__CAD20	B__A6
B13	RFU	B__D14	B52	B__CVS2	B__VS2#
B14	B__CC/BE0#	B__CE1#	B53	B__CAD21	B__A5
B15	B__CAD8	B__D15	B54	B__CRST	B__RESET
B16	GND	GND	B55	B__CAD22	B__A4
B17	B__CAD9	B__A10	B56	B__CSERR#	B__WAIT#
B18	B__CAD10	B__CE2#	B57	GND	GND
B19	B__CAD11	B__OE#	B58	B__CAD23	B__A3
B20	B__CVS1	B__VS1#	B59	B__CREQ#	B__INPACK
B21	B__CAD12	B__A11	B60	B__CAD24	B__A2
B22	GND	GND	B61	B__CC/BE3#	B__REG#
B23	B__CAD13	B__IORD#	B62	B__CAD25	B__A1
B24	B__CAD14	B__A9	B63	B__CAUDIO#	B__BVD2
B25	B__CAD15	B__IOWR#	B64	B__CAD26	B__A0
B26	B__CC/BE1#	B__A8	B65	GND	GND
B27	B__CAD16	B_A17	B66	B__CSTSCHG	B__BVD1
B28	GND	GND	B67	B__CAD27	B__D0
B29	B__CPAR	B__A13	B68	B__CAD28	B__D8
B30	RFU	B__A18	B69	B__CAD29	B__D1
B31	B__CPERR#	B__A14	B70	B__CAD30	B__D9
B32	B__ CBLOCK#	B__A19	B71	RFU	B__D2
B33	B__CGNT#	B__WE#	B72	B__CAD31	B__D10
B34	B_CSTOP#	B_A20	B73	GND	GND
B35	B__CINT#	B_READY	B74	B__ CCLKRUN#	B__WP
B36	B__ CDEVSEK#	B_A21	B75	B__CCD2#	B__CD2#
B37	B__VCC	B__VCC	B76	GND	GND
B38	B__VCC	B__VCC	B77	GND	GND
B39	B__VPP1	B__VPP1			

C. Jumper Setting

The following table is only for Geyserville Mobile Pentium III CPU. A normal Mobile Pentium III CPU doesn't need this setting.

VCC -Core Setting

SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	V_CORE
ON	ON	ON	ON	ON	2.00V
ON	ON	ON	ON	OFF	1.95V
ON	ON	ON	OFF	ON	1.90V
ON	ON	ON	OFF	OFF	1.85V
ON	ON	OFF	ON	ON	1.80V
ON	ON	OFF	ON	OFF	1.75V
ON	ON	OFF	OFF	ON	1.70V
ON	ON	OFF	OFF	OFF	1.65V
ON	OFF	ON	ON	ON	1.60V
ON	OFF	ON	ON	OFF	1.55V
ON	OFF	ON	OFF	ON	1.50V
ON	OFF	ON	OFF	OFF	1.45V
ON	OFF	OFF	ON	ON	1.40V
ON	OFF	OFF	ON	OFF	1.35V
ON	OFF	OFF	OFF	ON	1.30V
ON	OFF	OFF	OFF	OFF	N0 CPU

SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	V_CORE
OFF	ON	ON	ON	ON	1.275V
OFF	ON	ON	ON	OFF	1.250V
OFF	ON	ON	OFF	ON	1.225V
OFF	ON	ON	OFF	OFF	1.200V
OFF	ON	OFF	ON	ON	1.175V
OFF	ON	OFF	ON	OFF	1.150V
OFF	ON	OFF	OFF	ON	1.125V
OFF	ON	OFF	OFF	OFF	1.100V
OFF	OFF	ON	ON	ON	1.075V
OFF	OFF	ON	ON	OFF	1.050V
OFF	OFF	ON	OFF	ON	1.025V
OFF	OFF	ON	OFF	OFF	1.000V
OFF	OFF	OFF	ON	ON	0.975V
OFF	OFF	OFF	ON	OFF	0.950V
OFF	OFF	OFF	OFF	ON	0.925V
OFF	OFF	OFF	OFF	OFF	N0 CPU