DOMEX TECHNOLOGY CORPORATION

SATURN (REV. 1A)

Device Type	Mainboard
Processor	CX 6x86/CX6x86MX/CX MII/AM K5/AM K6/AM K6-2/IDT C6/RISE/Pentium/Pentium MMX
Processor Speed	100/133/166/180/200/225/233/240/266/300/333/350/366/380/400/450MHz
Chip Set	VIA
Video Chip Set	Unidentified
Audio Chip Set	Unidentified
Maximum Onboard Memory	256MB (EDO & SDRAM supported)
Maximum Video Memory	8MB (SGRAM)
Maximum Audio Memory	Unidentified
Cache	512KB
BIOS	Unidentified
Dimensions	220mm x 213mm
I/O Options	ATX power connector, audio in - CD ROMs (2), composite out, daughterboard interfaces (2), floppy drive interface, game port, IDE interfaces (2), IR connectors (3), line in, line out, microphone in, parallel port, PS/2 keyboard port, PS/2 mouse port, riser slot, S-video out, serial interface, serial port, USB interface, VGA port, Wake-on-LAN connector, Wake-on-modem connector
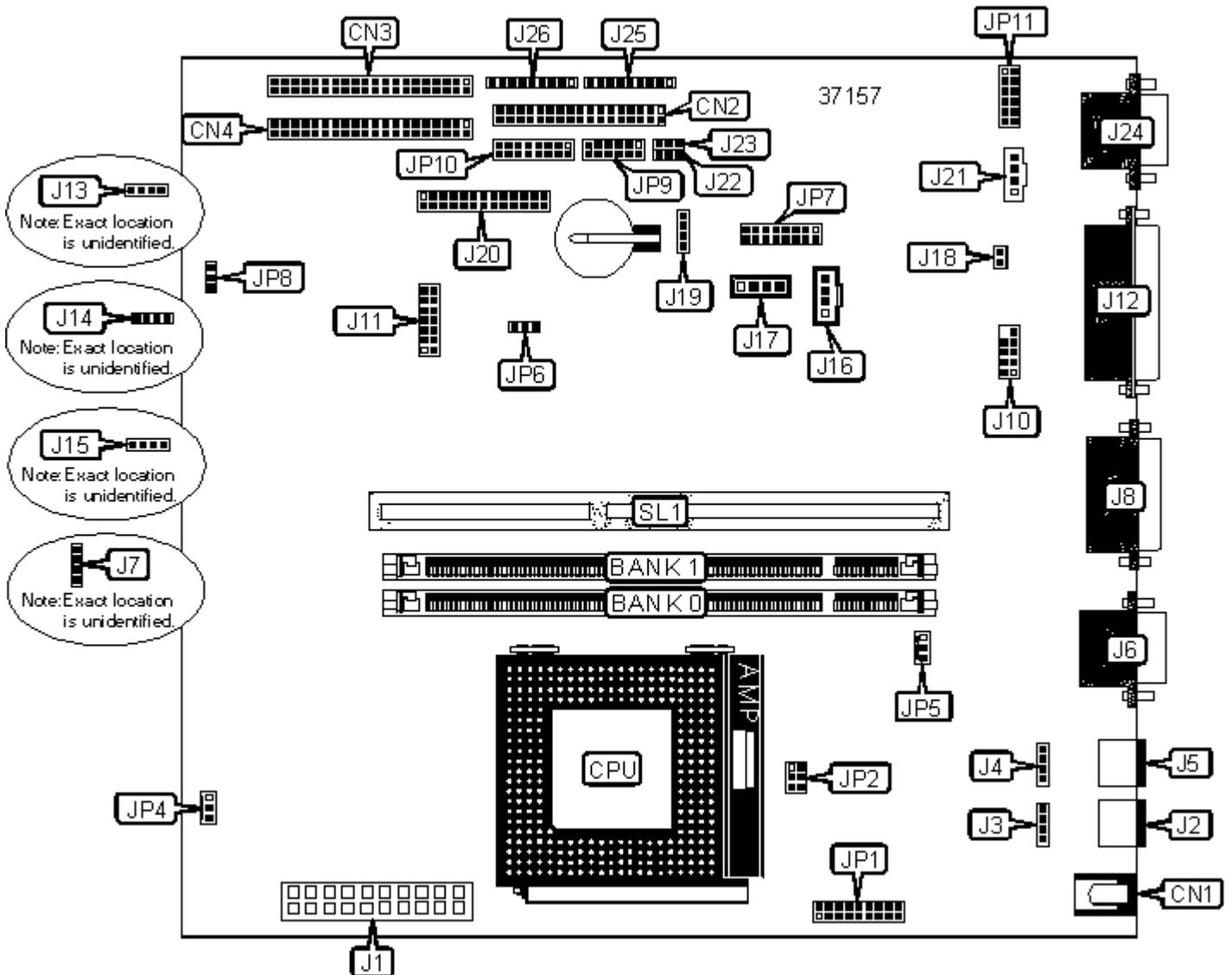
CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
DC power connector	CN1	Audio in - CD ROM (Sony)	J16
Floppy drive interface	CN2	Audio in - CD ROM (Panasonic)	J17
IDE interface 1	CN3	Composite out connector	J18
IDE interface 2	CN4	Capture module daughterboard interface	J20
ATX power connector	J1	S-video out interface	J21
PS/2 keyboard port	J2	Wake-on-LAN connector	J22
IR mouse connector	J3	Wake-on-modem connector	J23
IR keyboard connector	J4	VGA port	J24
PS/2 mouse port	J5	IR connector	J25/Pins 1 - 5
Serial port 1	J6	Power switch	J25/Pins 6 & 7
USB interface	J7	IDE interface LED	J25/Pins 8 & 9
Game port	J8	Power LED	J26/Pins 1 - 3
Serial interface	J10	Speaker	J25/Pins 6 - 9
Capture module daughterboard interface	J11	System fan power	JP4
Parallel port	J12	CPU fan power	JP5
Line in connector	J13	TV out daughterboard connector	JP7
Line out connector	J14	TV out daughterboard connector	JP11
Microphone in connector	J15	Riser slot	SL1

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
CPU single voltage type	JP2	Pins 1 & 3, 2 & 4 closed
CPU dual voltage type	JP2	Pins 3 & 5, 4 & 6 closed
CPU SDRAM clock speed	JP6	Pins 1 & 2 closed
AGP SDRAM clock speed	JP6	Pins 2 & 3 closed
Video format is NTSC	JP8	Pins 2 & 3 closed

Video format PAL	JP8	Pins 1 & 2 closed

DIMM CONFIGURATION		
Size	**Bank 0**	**Bank 1**
8MB	(1) 1M x 64	None
16MB	(1) 1M x 64	(1) 1M x 64
16MB	(1) 2M x 64	None
24MB	(1) 2M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64
32MB	(1) 4M x 64	None
40MB	(1) 4M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64
64MB	(1) 4M x 64	(1) 4M x 64
64MB	(1) 8M x 64	None
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
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
Note: Board supports EDO & SDRAM memory.		

CMOS/BATTERY SELECTION	
Setting	**J19**
CMOS memory normal operation with internal battery	Pins 1 & 2 closed

CMOS memory normal operation with external battery	Pins 3 & 4 closed
CMOS memory clear	Open

CPU SPEED SELECTION (CX 6X86MX)				
CPU speed	Clock speed	Multiplier	JP9	JP10
166MHz	60MHz	2.5x	Pins 1 & 2	Pins 3 & 4
166MHz	66MHz	2.0x	Pins 3 & 4	Pins 1 & 2
200MHz	75MHz	2.0x	Pins 5 & 6	Pins 1 & 2
233MHx	66MHz	3.0x	Pins 3 & 4	Pins 5 & 6
233MHz	75MHz	2.5x	Pins 5 & 6	Pins 3 & 4
266MHz	66MHz	3.5x	Pins 3 & 4	Pins 7 & 8
266MHz	75MHz	3.0x	Pins 5 & 6	Pins 5 & 6
Note: Designated pins should be in the closed position.				

CPU SPEED SELECTION (CX MII)				
CPU speed	Clock speed	Multiplier	JP9	JP10
300MHz	66MHz	3.5x	Pins 3 & 4	Pins 7 & 8
300MHz	75MHz	3.0x	Pins 5 & 6	Pins 5 & 6
333MHz	83MHz	3.0x	Pins 7 & 8	Pins 5 & 6
350MHz	83MHz	3.0x	Pins 7 & 8	Pins 5 & 6
366MHz	100MHz	2.5x	Pins 11 & 12	Pins 3 & 4
Note: Designated pins should be in the closed position.				

CPU SPEED SELECTION (AM K6)				
CPU speed	Clock speed	Multiplier	JP9	JP10
200MHz	66MHz	3.0x	Pins 3 & 4	Pins 5 & 6
233MHz	66MHz	3.5x	Pins 3 & 4	Pins 7 & 8
266MHz	66MHz	4.0x	Pins 3 & 4	Pins 9 & 10
300MHz	66MHz	4.5x	Pins 3 & 4	Pins 11 & 12

| 300MHz | 100MHz | 3.0x | Pins 11 & 12 | Pins 5 & 6 |

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (AM K6-2)

CPU speed	Clock speed	Multiplier	JP9	JP10
233MHz	66MHz	3.5x	Pins 3 & 4	Pins 7 & 8
266MHz	66MHz	4.0x	Pins 3 & 4	Pins 9 & 10
300MHz	66MHz	4.5x	Pins 3 & 4	Pins 11 & 12
300MHz	100MHz	3.0x	Pins 11 & 12	Pins 5 & 6
333MHz	66MHz	5.0x	Pins 3 & 4	Pins 13 & 14
333MHz	95MHz	3.5x	Pins 9 & 10	Pins 7 & 8
350MHz	100MHz	3.5x	Pins 11 & 12	Pins 7 & 8
380MHz	95MHz	4.0x	Pins 9 & 10	Pins 9 & 10
400MHz	100MHz	4.0x	Pins 11 & 12	Pins 9 & 10
450MHz	100MHz	4.5x	Pins 11 & 12	Pins 11 & 12

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (ID C6)

CPU speed	Clock speed	Multiplier	JP9	JP10
180MHz	60MHz	3.0x	Pins 1 & 2	Pins 5 & 6
200MHz	66MHz	3.0x	Pins 3 & 4	Pins 5 & 6
225MHz	75MHz	3.0x	Pins 5 & 6	Pins 5 & 6
240MHz	60MHz	4.0x	Pins 1 & 2	Pins 9 & 10

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (RISE)

CPU speed	Clock speed	Multiplier	JP9	JP10
266MHz	100MHz	2.0x	Pins 11 & 12	Pins 1 & 2

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (PENTIUM)

CPU speed	Clock speed	Multiplier	JP9	JP10
100MHz	66MHz	1.5x	Pins 3 & 4	Pins 7 & 8
133MHz	66MHz	2.0x	Pins 3 & 4	Pins 1 & 2
166MHz	66MHz	2.5x	Pins 3 & 4	Pins 3 & 4
200MHz	66MHz	3.0x	Pins 3 & 4	Pins 5 & 6

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (PENTIUM MMX)

CPU speed	Clock speed	Multiplier	JP9	JP10
166MHz	66MHz	2.5x	Pins 3 & 4	Pins 3 & 4
200MHz	66MHz	3.0x	Pins 3 & 4	Pins 5 & 6
233MHz	66MHz	3.5x	Pins 3 & 4	Pins 7 & 8

Note: Designated pins should be in the closed position.

VOLTAGE SELECTION

Voltage	JP1
2.1V	Pins 1 & 2 closed
2.2V	Pins 3 & 4 closed
2.3V	Pins 5 & 6 closed
2.4V	Pins 7 & 8 closed
2.8V	Pins 9 & 10 closed
2.9V	Pins 11 & 12 closed
3.2V	Pins 13 & 14 closed
3.3V	Pins 15 & 16 closed
3.52V	Pins 17 & 18 closed

Device Type   Riser card
I/O Options   32-bit PCI slot

37157
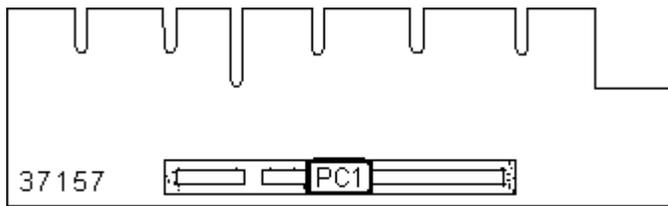
9106 RISER CARD

CONNECTIONS	
Purpose	**Location**
32-bit PCI slot	PC1

Device Type   Riser card
I/O Options   16-bit ISA slot, 32-bit PCI slots (2)

37157
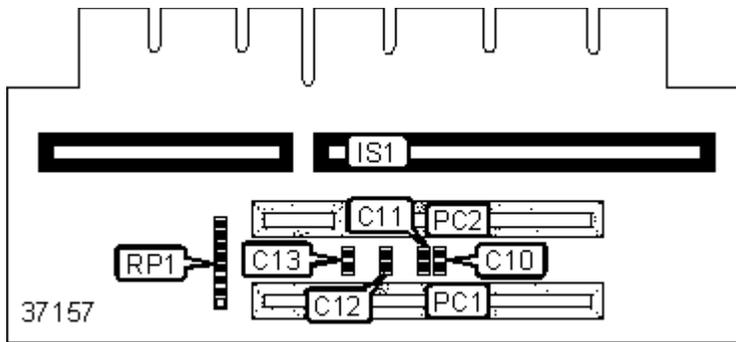
9103 RISER CARD

CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
16-bit ISA slot	IS1	Unidentified	RP1
32-bit PCI slots	PC1 - PC2		

USER CONFIGURABLE SETTINGS			
Function		**Label**	**Position**
»	Factory configured - do not alter	C10	Open
»	Factory configured - do not alter	C11	Open
»	Factory configured - do not alter	C12	Open
»	Factory configured - do not alter	C13	Open

Device Type   Daughterboard
I/O Options   Composite in, S-video in,

37157

JP2

JP1

J2

J1
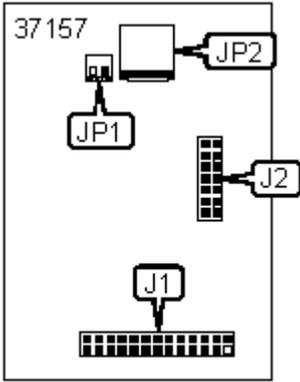
9721 DAUGHTERBOARD

CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
Mainboard connector	J1	Composite video in connector	JP1
Mainboard connector	J2	S-video in connector	JP2
Note: J1 connects to J20 on the mainboard. J2 connects to J11 on the mainboard.			

MISCELLANEOUS TECHNICAL NOTES
Diagram of 9720 Capture daughterboard not available.