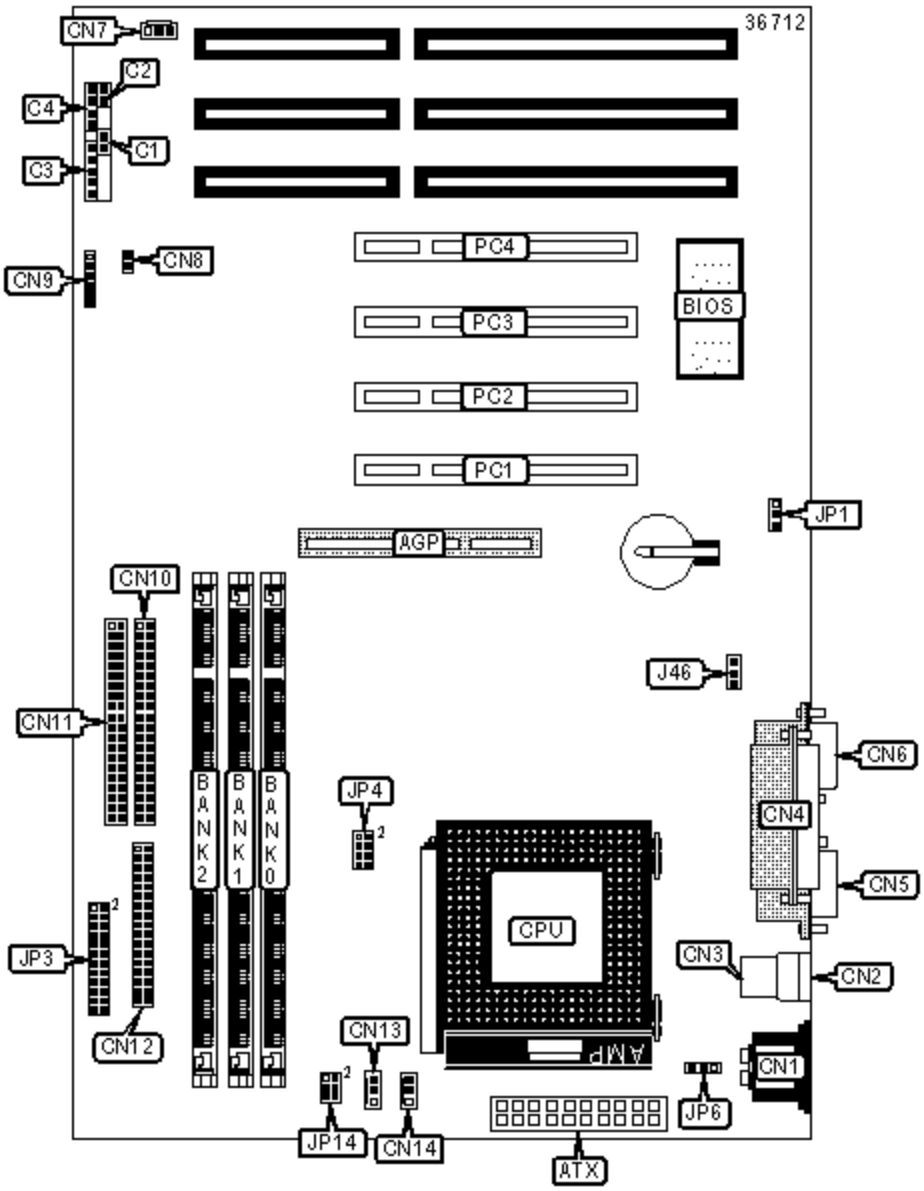
IWILL CORPORATION

XA100 PLUS

Device Type	Mainboard
Processor	CX 6x86MX/CX M2/IBM 6x86MX/AM K6/AM K6-2/AM K6-3/ID Winchip 2/ID Winchip 3/ID Winchip 4/Pentium MMX/RISE
Processor Speed	166/200/233/266/300/333/350/380/400/433/450/466/500MHz
Chip Set	ALI
Maximum Onboard Memory	768MB (EDO & SDRAM supported)
Cache	128MB
BIOS	Award
Dimensions	188mm x 305mm
I/O Options	32-bit PCI slots (4), floppy drive interface, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), IR connector, USB ports (2), ATX power connector, AGP slot, Wake-On LAN connector,



CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
AGP slot	AGP	Serial port 2	CN6

ATX power connector	ATX	Chassis fan power	CN7
IDE interface LED	C1	Power switch	CN8
Reset switch	C2	IR connector	CN9
Power LED & keylock	C3	IDE interface 1	CN10
PC speaker	C4	IDE interface 2	CN11
PS/2 mouse port	CN1	Floppy drive interface	CN12
USB port 1	CN2	CPU fan power	CN13
USB port 2	CN3	Chassis fan power	CN14
Parallel port	CN4	Wake-On LAN connector	J46
Serial port 1	CN5	32-bit PCI slots	PC1 - PC4

USER CONFIGURABLE SETTINGS			
Function		**Label**	**Position**
»	CMOS memory normal operation	JP1	Pins 1 & 2 Closed
	CMOS memory clear	JP1	Pins 2 & 3 Closed
	Keyboard power up disabled	JP6	Pins 1 & 2 Closed
	Keyboard power up enabled (5V_SB)	JP6	Pins 2 & 3 Closed

DIMM CONFIGURATION			
Size	**Bank 0**	**Bank 1**	**Bank 2**
8MB	(1) 1M x 64	None	None
16MB	(1) 1M x 64	(1) 1M x 64	None
16MB	(1) 2M x 64	None	None
24MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64	None
32MB	(1) 4M x 64	None	None
32MB	(1) 2M x 64	(1) 1M x 64	(1) 1M x 64
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64

48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
48MB	(1) 4M x 64	(1) 1M x 64	(1) 1M x 64
64MB	(1) 4M x 64	(1) 4M x 64	None
64MB	(1) 8M x 64	None	None
64MB	(1) 4M x 64	(1) 2M x 64	(1) 2M x 64
80MB	(1) 8M x 64	(1) 1M x 64	(1) 1M x 64
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
96MB	(1) 8M x 64	(1) 2M x 64	(1) 2M x 64
128MB	(1) 8M x 64	(1) 8M x 64	None
128MB	(1) 16M x 64	None	None
128MB	(1) 8M x 64	(1) 4M x 64	(1) 4M x 64
144MB	(1) 16M x 64	(1) 1M x 64	(1) 1M x 64
160MB	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64
192MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64
192MB	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64
256MB	(1) 16M x 64	(1) 16M x 64	None
256MB	(1) 32M x 64	None	None
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
272MB	(1) 32M x 64	(1) 1M x 64	(1) 1M x 64
288MB	(1) 32M x 64	(1) 2M x 64	(1) 2M x 64
320MB	(1) 32M x 64	(1) 4M x 64	(1) 4M x 64
384MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64
384MB	(1) 32M x 64	(1) 8M x 64	(1) 8M x 64
512MB	(1) 32M x 64	(1) 32M x 64	None
512MB	(1) 32M x 64	(1) 16M x 64	(1) 16M x 64
768MB	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64
Note: Board supports 3.3 V EDO & SDRAM memory. Must use one or the other			

CPU SPEED SELECTION (CX 6x86MX)			
CPU speed	**Clock speed**	**Multiplier**	**JP3**
166MHz	66MHz	2.0x	Pins 1 & 2, 9 & 10 Closed
200MHz	66MHz	2.5x	Pins 1 & 2, 11 & 12 Closed
200MHz	75MHz	2.0x	Pins 3 & 4, 9 & 10 Closed
233MHz	75MHz	2.5x	Pins 3 & 4, 11 & 12 Closed
233MHz	83MHz	2.0x	Pins 5 & 6, 9 & 10 Closed
233MHz	100MHz	2.0x	Pins 7 & 8, 9 & 10 Closed
266MHz	66MHz	3.0x	Pins 1 & 2, 13 & 14 Closed
266MHz	83MHz	2.5x	Pins 5 & 6, 11 & 12 Closed
300MHz	66MHz	3.5x	Pins 1 & 2, 15 & 16 Closed
300MHz	75MHz	3.0x	Pins 3 & 4, 13 & 14 Closed
300MHz	95MHz	2.5x	Pins 5 & 6, 11 & 12 Closed
333MHz	66MHz	4.0x	Pins 1 & 2, 17 & 18 Closed
333MHz	75MHz	3.5x	Pins 3 & 4, 15 & 16 Closed
333MHz	83MHz	3.0x	Pins 5 & 6, 13 & 14 Closed
333MHz	100MHz	2.5x	Pins 7 & 8, 11 & 12 Closed
350MHz	95MHz	3.0x	Pins 5 & 6, 13 & 14 Closed
366MHz	75MHz	4.0x	Pins 3 & 4, 17 & 18 Closed
366MHz	83MHz	3.5x	Pins 5 & 6, 15 & 16 Closed
366MHz	100MHz	2.5x	Pins 7 & 8, 11 & 12 Closed
380MHz	100MHz	3.0x	Pins 7 & 8, 13 & 14 Closed
400MHz	83MHz	4.0x	Pins 5 & 6, 17 & 18 Closed
400MHz	95MHz	3.5x	Pins 5 & 6, 15 & 16 Closed
433MHz	100MHz	3.5x	Pins 7 & 8, 15 & 16 Closed
450MHz	95MHz	4.0x	Pins 5 & 6, 17 & 18 Closed
466MHz	100MHz	4.0x	Pins 7 & 8, 17 & 18 Closed
Note: All pins on JP3 are open unless designated as closed			

CPU SPEED SELECTION (IBM 6x86MX)			
CPU speed	**Clock speed**	**Multiplier**	**JP3**
166MHz	66MHz	2.0x	Pins 1 & 2, 9 & 10 Closed
200MHz	75MHz	2.0x	Pins 3 & 4, 9 & 10 Closed
233MHz	75MHz	2.5x	Pins 3 & 4, 11 & 12 Closed
266MHz	83MHz	2.5x	Pins 5 & 6, 11 & 12 Closed
300MHz	66MHz	3.5x	Pins 1 & 2, 15 & 16 Closed
300MHz	75MHz	3.0x	Pins 3 & 4, 13 & 14 Closed
333MHz	66MHz	4.0x	Pins 1 & 2, 17 & 18 Closed
333MHz	75MHz	3.5x	Pins 3 & 4, 15 & 16 Closed
333MHz	83MHz	3.0x	Pins 5 & 6, 13 & 14 Closed
333MHz	100Mhz	2.5x	Pins 7 & 8, 11 & 12 Closed
Note: All pins on JP3 are open unless designated as closed			

CPU SPEED SELECTION (AM K6)			
CPU speed	**Clock speed**	**Multiplier**	**JP3**
166MHz	66MHz	2.5x	Pins 1 & 2, 11 & 12 Closed
200MHz	66MHz	3.0x	Pins 1 & 2, 13 & 14 Closed
233MHz	66MHz	3.5x	Pins 1 & 2, 15 & 16 Closed
266MHz	66MHz	4.0x	Pins 1 & 2, 17 & 18 Closed
300MHz	66MHz	4.5x	Pins 1 & 2, 19 & 20 Closed
Note: All pins on JP3 are open unless designated as closed			

CPU SPEED SELECTION (AM K6-2)			
CPU speed	**Clock speed**	**Multiplier**	**JP3**
266MHz	66MHz	4.0x	Pins 1 & 2, 17 & 18 Closed
300MHz	66MHz	4.5x	Pins 1 & 2, 19 & 20 Closed

300MHz	100MHz	3.0x	Pins 7 & 8, 13 & 14 Closed
333MHz	66MHz	5.0x	Pins 1 & 2, 21 & 22 Closed
333MHz	95MHz	3.5x	Pins 5 & 6, 15 & 16 Closed
350MHz	100MHz	3.5x	Pins 7 & 8, 15 & 16 Closed
366MHz	66MHz	5.5x	Pins 1 & 2, 23 & 24 Closed
380MHz	95MHz	4.0x	Pins 5 & 6, 17 & 18 Closed
400MHz	100MHz	4.0x	Pins 7 & 8, 17 & 18 Closed
450MHz	100MHz	4.5x	Pins 7 & 8, 19 & 20 Closed
475MHz	95MHz	5.0x	Pins 5 & 6, 21 & 22 Closed
500MHz	100MHz	5.0x	Pins 7 & 8, 21 & 22 Closed
Note: All pins on JP3 are open unless designated as closed			

CPU SPEED SELECTION (AM K6-3)			
CPU speed	**Clock speed**	**Multiplier**	**JP3**
400MHz	100MHz	4.0x	Pins 7 & 8, 17 & 18 Closed
450MHz	100MHz	4.5x	Pins 7 & 8, 19 & 20 Closed
475MHz	95MHz	5.0x	Pins 5 & 6, 21 & 22 Closed
Note: All pins on JP3 are open unless designated as closed			

CPU SPEED SELECTION (ID WINCHIP 2)			
CPU speed	**Clock speed**	**Multiplier**	**JP3**
200MHz	66MHz	3.0x	Pins 1 & 2, 13 & 14 Closed
233MHz	66MHz	3.5x	Pins 1 & 2, 15 & 16 Closed
300MHz	100MHz	2.5x	Pins 7 & 8, 11 & 12 Closed
Note: All pins on JP3 are open unless designated as closed			

CPU SPEED SELECTION (ID WINCHIP 3)			

CPU speed	Clock speed	Multiplier	JP3
266MHz	66MHz	3.5x	Pins 1 & 2, 15 & 16 Closed
300MHz	66MHz	4.0x	Pins 1 & 2, 17 & 18 Closed
Note: All pins on JP3 are open unless designated as closed			

CPU SPEED SELECTION (ID WINCHIP 4)			
CPU speed	**Clock speed**	**Multiplier**	**JP3**
400MHz	100MHz	4.0x	Pins 7 & 8, 17 & 18 Closed
450MHz	100MHz	4.5x	Pins 7 & 8, 19 & 20 Closed
500MHz	100MHz	5.0x	Pins 7 & 8, 21 & 22 Closed
Note: All pins on JP3 are open unless designated as closed			

CPU SPEED SELECTION (PENTIUM MMX)			
CPU speed	**Clock speed**	**Multiplier**	**JP3**
166MHz	66MHz	2.5x	Pins 1 & 2, 11 & 12 Closed
200MHz	66MHz	3.0x	Pins 1 & 2, 13 & 14 Closed
233MHz	66MHz	3.5x	Pins 1 & 2, 15 & 16 Closed
Note: All pins on JP3 are open unless designated as closed			

CPU SPEED SELECTION (RISE)			
CPU speed	**Clock speed**	**Multiplier**	**JP3**
166MHz	83MHz	2.0x	Pins 5 & 6, 9 & 10 Closed
233MHz	83MHz	2.0x	Pins 5 & 6, 9 & 10 Closed
266MHz	100MHz	2.0x	Pins 7 & 8, 9 & 10 Closed
Note: All pins on JP3 are open unless designated as closed			

VCORE SELECTION				

Setting	JP4/Pins 1 & 2	JP4/Pins 3 & 4	JP4/ Pins 5 & 6	JP4/Pins 7 & 8
2.0V	Open	Open	Open	Open
2.1V	Closed	Open	Open	Open
2.2V	Open	Closed	Open	Open
2.3V	Closed	Closed	Open	Open
2.4V	Open	Open	Closed	Open
2.5V	Closed	Open	Closed	Open
2.6V	Open	Closed	Closed	Open
2.7V	Closed	Closed	Closed	Open
2.8V	Open	Open	Open	Closed
2.9V	Closed	Open	Open	Closed
3.0V	Open	Closed	Open	Closed
3.1V	Closed	Closed	Open	Closed
3.2V	Open	Open	Closed	Closed
3.3V	Closed	Open	Closed	Closed
3.4V	Open	Closed	Closed	Closed
3.5V	Closed	Closed	Closed	Closed

VIO VOLTAGE SELECTION			
Setting	**JP14/Pins 1 & 2**	**JP14/Pins 3 & 4**	**JP14/Pins 5 & 6**
3.5V	Closed	Open	Open
3.6V	Open	Closed	Open
3.8V	Open	Open	Closed