

FIRST INTERNATIONAL COMPUTER, INC.

486-VIP-IO

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CONNECTIONS			
Purpose	Location	Purpose	Location
PS/2 mouse port	CN1	Green PC connector	J21
PS/2 mouse port	CN4	Green PC connector	J22
Serial port 2	CN6	Chassis fan power	J24
Serial port 1	CN7	3.3v daughter board connector	J25
Parallel port	CN8	Speaker	J28
Floppy drive interface	CN9	Power LED & keylock	J29
IDE interface (secondary)	CN10	Reset switch	J30
External battery	J3	Turbo switch	J31
IDE interface LED	J4	Turbo LED	J32
Green PC connector	J5	32-bit PCI slots	PC1 - PC4
IDE interface (primary)	J6	32-bit VESA local bus slots	SL1 & SL2
IDE interface LED	J13		

USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
í CMOS memory normal operation	J7	Open
CMOS memory clear	J7	Closed
í IDE connector pin 27 linked to IOCHRDY signal	J8	Open
IDE connector pin 27 open	J8	Closed
í IDE connector pin 28 linked to BALE signal	J11	Open
IDE connector pin 28 open	J11	Closed
í Factory configured - do not alter	J20	pins 1 & 2 closed
í Factory configured - do not alter	J23	pins 1 & 2 closed
í VESA IDE enabled	J26	pins 1 & 2 closed
VESA IDE disabled	J26	pins 2 & 3 closed
í Monitor type select monochrome/EGA/VGA	J33	Open
Monitor type select color	J33	Closed
í Cache type select write back	JC7	pins 1 & 2 closed
Cache type select write through	JC7	pins 2 & 3 closed
í CPU type select Intel/AMD DX4	JC8	pins 1 & 2 closed
CPU type select Cyrix DX2-V	JC8	pins 2 & 3 closed
í CPU type select Intel S - series	JC9	pins 1 & 2 closed
CPU type select P24D/P24T/CX486DX	JC9	pins 2 & 3 closed
í CPU type select Intel DX4	JC10	Open
CPU type select CX486DX/DX2-V	JC10	Closed
í IRQ select IRQ10	JT3	pins 2 & 3 closed
IRQ select IRQ14	JT3	pins 1 & 2 closed
í Factory configured - do not alter	JX1	pins 2 & 3 closed
í Factory configured - do not alter	JX2	pins 2 & 3 closed
í Factory configured - do not alter	JX5	pins 1 & 2 closed

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DRAM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
1MB	(1) 256K x 36	NONE	NONE	NONE
1MB	NONE	(1) 256K x 36	NONE	NONE
1MB	NONE	NONE	(1) 256K x 36	NONE
2MB	(1) 256K x 36	(1) 256K x 36	NONE	NONE
2MB	(1) 256K x 36	NONE	(1) 256K x 36	NONE
2MB	NONE	NONE	(1) 256K x 36	(1) 256K x 36
2MB	NONE	(1) 256K x 36	(1) 256K x 36	NONE
3MB	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36	NONE
3MB	NONE	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
3MB	(1) 256K x 36	NONE	(1) 256K x 36	(1) 256K x 36
4MB	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
4MB	(1) 1M x 36	NONE	NONE	NONE
4MB	NONE	(1) 1M x 36	NONE	NONE
4MB	NONE	NONE	(1) 1M x 36	NONE
5MB	(1) 1M x 36	(1) 256K x 36	NONE	NONE
5MB	(1) 256K x 36	(1) 1M x 36	NONE	NONE
5MB	(1) 256K x 36	NONE	(1) 1M x 36	NONE
5MB	(1) 1M x 36	NONE	(1) 256K x 36	NONE
5MB	NONE	(1) 256K x 36	(1) 1M x 36	NONE
5MB	NONE	(1) 1M x 36	(1) 256K x 36	NONE
6MB	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36	NONE
6MB	(1) 256K x 36	(1) 256K x 36	(1) 1M x 36	NONE
6MB	(1) 256K x 36	(1) 1M x 36	(1) 256K x 36	NONE
6MB	NONE	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36
6MB	(1) 1M x 36	NONE	(1) 256K x 36	(1) 256K x 36
7MB	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
7MB	(1) 256K x 36	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36
8MB	(1) 1M x 36	(1) 1M x 36	NONE	NONE
8MB	(1) 1M x 36	NONE	(1) 1M x 36	NONE
8MB	NONE	NONE	(1) 1M x 36	(1) 1M x 36
8MB	NONE	(1) 1M x 36	(1) 1M x 36	NONE
9MB	(1) 256K x 36	(1) 1M x 36	(1) 1M x 36	NONE
9MB	(1) 1M x 36	(1) 256K x 36	(1) 1M x 36	NONE
9MB	(1) 1M x 36	(1) 1M x 36	(1) 256K x 36	NONE
9MB	NONE	(1) 256K x 36	(1) 1M x 36	(1) 1M x 36
9MB	(1) 256K x 36	NONE	(1) 1M x 36	(1) 1M x 36
10MB	(1) 256K x 36	(1) 256K x 36	(1) 1M x 36	(1) 1M x 36
10MB	(1) 1M x 36	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36
12MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	NONE
12MB	NONE	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
12MB	(1) 1M x 36	NONE	(1) 1M x 36	(1) 1M x 36
13MB	(1) 256K x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
13MB	(1) 1M x 36	(1) 256K x 36	(1) 1M x 36	(1) 1M x 36
16MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
16MB	(1) 4M x 36	NONE	NONE	NONE

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DRAM CONFIGURATION (CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
16MB	NONE	(1) 4M x 36	NONE	NONE
16MB	NONE	NONE	(1) 4M x 36	NONE
17MB	(1) 4M x 36	(1) 256K x 36	NONE	NONE
17MB	(1) 256K x 36	(1) 4M x 36	NONE	NONE
17MB	(1) 256K x 36	NONE	(1) 4M x 36	NONE
17MB	NONE	(1) 256K x 36	(1) 4M x 36	NONE
17MB	NONE	(1) 4M x 36	(1) 256K x 36	NONE
18MB	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36	NONE
18MB	(1) 256K x 36	(1) 256K x 36	(1) 4M x 36	NONE
18MB	(1) 256K x 36	(1) 4M x 36	(1) 256K x 36	NONE
18MB	NONE	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36
19MB	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
19MB	(1) 256K x 36	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36
20MB	(1) 4M x 36	(1) 1M x 36	NONE	NONE
20MB	(1) 1M x 36	(1) 4M x 36	NONE	NONE
20MB	(1) 1M x 36	NONE	(1) 4M x 36	NONE
20MB	NONE	(1) 4M x 36	(1) 1M x 36	NONE
20MB	NONE	(1) 1M x 36	(1) 4M x 36	NONE
21MB	(1) 4M x 36	(1) 1M x 36	(1) 256K x 36	NONE
21MB	(1) 256K x 36	(1) 1M x 36	(1) 4M x 36	NONE
21MB	(1) 256K x 36	(1) 4M x 36	(1) 1M x 36	NONE
21MB	(1) 1M x 36	(1) 256K x 36	(1) 4M x 36	NONE
21MB	(1) 1M x 36	(1) 4M x 36	(1) 256K x 36	NONE
22MB	(1) 4M x 36	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36
22MB	(1) 1M x 36	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36
24MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	NONE
24MB	(1) 1M x 36	(1) 1M x 36	(1) 4M x 36	NONE
24MB	(1) 1M x 36	(1) 4M x 36	(1) 1M x 36	NONE
24MB	NONE	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36
25MB	(1) 256K x 36	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36
28MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
28MB	(1) 1M x 36	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36
32MB	(1) 4M x 36	(1) 4M x 36	NONE	NONE
32MB	NONE	(1) 4M x 36	(1) 4M x 36	NONE
32MB	NONE	NONE	(1) 4M x 36	(1) 4M x 36
32MB	(1) 8M x 36	NONE	NONE	NONE
32MB	NONE	NONE	(1) 8M x 36	NONE
33MB	(1) 4M x 36	(1) 4M x 36	(1) 256K x 36	NONE
33MB	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36	NONE
33MB	NONE	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36
33MB	(1) 256K x 36	NONE	(1) 4M x 36	(1) 4M x 36
34MB	(1) 4M x 36	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36
34MB	(1) 256K x 36	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36
36MB	(1) 4M x 36	(1) 4M x 36	(1) 1M x 36	NONE

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DRAM CONFIGURATION (CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
36MB	(1) 1M x 36	(1) 4M x 36	(1) 4M x 36	NONE
36MB	NONE	(1) 1M x 36	(1) 4M x 36	(1) 4M x 36
36MB	(1) 1M x 36	NONE	(1) 4M x 36	(1) 4M x 36
37MB	(1) 256K x 36	(1) 1M x 36	(1) 4M x 36	(1) 4M x 36
37MB	(1) 1M x 36	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36
40MB	(1) 4M x 36	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36
40MB	(1) 1M x 36	(1) 1M x 36	(1) 4M x 36	(1) 4M x 36
48MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	NONE
48MB	NONE	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
49MB	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
52MB	(1) 1M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
64MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
64MB	(1) 8M x 36	NONE	(1) 8M x 36	NONE

CACHE CONFIGURATION			
Size	Bank 0	Bank 1	TAG
128KB	(4) 32K x 8	NONE	(1) 8K x 8 or (1) 32K x 8
256KB	(4) 32K x 8	(4) 32K x 8	(1) 32K x 8
256KB	(4) 64K x 8	NONE	(1) 32K x 8
512KB	(4) 128K x 8	NONE	(1) 32K x 8
512KB	(4) 64K x 8	(4) 64K x 8	(1) 32K x 8 or (1) 64K x 8
1MB	(4) 128K x 8	(4) 128K x 8	(1) 64K x 8 or (1) 128K x 8

CACHE JUMPER CONFIGURATION						
Size	JS1	JS2	JS3	JS4	JS5	JS6
128KB	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2
256KB	2 & 3	2 & 3	1 & 2	1 & 2	1 & 2	1 & 2
512KB	2 & 3	2 & 3	2 & 3	1 & 2	2 & 3	1 & 2
1MB	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

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CPU TYPE CONFIGURATION						
Type	JC1	JC2	JC3	JC4	JC5	JC6
AM486	1 & 2	1 & 2	Open	1 & 2	Open	Closed
CX486S	2 & 3	2 & 3	Open	1 & 2	Open	Open
80486SX	2 & 3	2 & 3	Open	1 & 2	Open	Closed
CX486DX	1 & 2	1 & 2	Open	1 & 2	Open	Open
80486DX	1 & 2	1 & 2	Open	1 & 2	Open	Closed
80486DX2	1 & 2	1 & 2	Open	1 & 2	Open	Closed
80486DX4	1 & 2	1 & 2	Open	1 & 2	Closed	Closed
P4S	1 & 2	1 & 2	Open	1 & 2	Closed	Closed
P23S	2 & 3	2 & 3	Open	1 & 2	Closed	Closed
P24S	1 & 2	1 & 2	Open	1 & 2	Closed	Closed
P24CT	1 & 2	1 & 2	Closed	2 & 3	Closed	Closed
P24D	1 & 2	1 & 2	Open	2 & 3	Closed	Closed
P24T	1 & 2	1 & 2	Closed	2 & 3	Closed	Closed

Note: Pins designated should be in the closed position.

CPU TYPE CONFIGURATION (CON'T)			
Type	RN18	RN19	RN20
AM486	Not installed	Not installed	Installed
CX486S	Installed	Not installed	Not installed
80486SX	Not installed	Not installed	Not installed
CX486DX	Installed	Not installed	Not installed
80486DX	Not installed	Not installed	Not installed
80486DX2	Not installed	Not installed	Not installed
80486DX4	Not installed	Installed	Not installed
P4S	Not installed	Not installed	Not installed
P23S	Not installed	Not installed	Not installed
P24S	Not installed	Not installed	Not installed
P24CT	Not installed	Installed	Not installed
P24D	Not installed	Installed	Not installed
P24T	Not installed	Not installed	Not installed

Note: The locations of RN18, RN19 & RN 20 are unidentified.

CPU SPEED CONFIGURATION				
Speed	JK1	JK2	JK3	JK4
25MHz	pins 2 & 3 closed	pins 1 & 2 closed	pins 2 & 3 closed	pins 1 & 2 closed
33MHz	pins 2 & 3 closed	pins 2 & 3 closed	pins 1 & 2 closed	pins 1 & 2 closed
40MHz	pins 1 & 2 closed	pins 1 & 2 closed	pins 2 & 3 closed	pins 1 & 2 closed
50iMHz	pins 2 & 3 closed	pins 1 & 2 closed	pins 2 & 3 closed	pins 1 & 2 closed
50MHz	pins 2 & 3 closed	pins 1 & 2 closed	pins 2 & 3 closed	pins 2 & 3 closed
66iMHz	pins 2 & 3 closed	pins 2 & 3 closed	pins 1 & 2 closed	pins 1 & 2 closed
75iMHz	pins 2 & 3 closed	pins 1 & 2 closed	pins 2 & 3 closed	pins 1 & 2 closed
100iMHz	pins 2 & 3 closed	pins 2 & 3 closed	pins 1 & 2 closed	pins 1 & 2 closed

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CPU SPEED CONFIGURATION (80486DX4 ONLY)	
Speed	J27
2.0x	pins 2 & 3 closed
2.5x	pins 1 & 2 closed
3.0x	Open

VESA WAIT STATE CONFIGURATION	
Wait states	JV1
0 wait states	pins 2 & 3 closed
1 wait state	pins 1 & 2 closed

BUS SPEED CONFIGURATION	
CPU speed	JV2
<= 33MHz	pins 2 & 3 closed
> 33MHz	pins 1 & 2 closed

BASE I/O ADDRESS CONFIGURATION				
Index address	Data address	JF	JG	JH
í 26EH	26FH	pins 1 & 2 closed	pins 2 & 3 closed	pins 2 & 3 closed
2EH	2FH	pins 1 & 2 closed	pins 1 & 2 closed	pins 2 & 3 closed
15CH	15DH	pins 2 & 3 closed	pins 1 & 2 closed	pins 2 & 3 closed
398H	399H	pins 2 & 3 closed	pins 2 & 3 closed	pins 2 & 3 closed

DMA MODE CONFIGURATION		
Speed	JP1	JP2
í DREQ3/DACK3	pins 1 & 2 closed	pins 1 & 2 closed
DREQ1/DACK1	pins 2 & 3 closed	pins 2 & 3 closed

IDE CONNECTOR CONFIGURATION				
IRQ	J8	J9	J10	J11
IDE connector pin 27 linked to IOCHRDY signal	Open	Open	N/A	N/A
IDE connector pin 27 open	Closed	Closed	N/A	N/A
IDE connector pin 28 linked to BALE signal	N/A	N/A	Open	Open
IDE connector pin 28 open	N/A	N/A	Closed	Closed

IDE CONTROLLER CONFIGURATION		
Speed	J14	J16
0	pins 2 & 3 closed	pins 1 & 2 closed
1	pins 2 & 3 closed	pins 1 & 2 closed
2	pins 1 & 2 closed	pins 1 & 2 closed

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IRQ PULL UP/PULL DOWN CONFIGURATION					
IRQ	J1	J2	J34	J35	J36
IRQ5 pull up	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2
IRQ5 pull down	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3
IRQ9 pull up	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2
IRQ9 pull down	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3
IRQ10 pull up	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2
IRQ10 pull down	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3
IRQ11 pull up	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2
IRQ11 pull down	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3
IRQ14 pull up	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2
IRQ14 pull down	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3

Note: Use pull down setting if PCI card is installed. Pins designated should be in the closed position.

PCI CLOCK CONFIGURATION		
Setting	JT4	J19
PCICLK=PCICLK	pins 1 & 2 closed	pins 1 & 2 closed
PCICLK=CPUCLK/2	pins 2 & 3 closed	pins 2 & 3 closed

KEYBOARD CONTROLLER CONFIGURATION			
Type	J17	JX3	JX4
External keyboard	pins 1 & 2 closed	pins 1 & 2 closed	pins 1 & 2 closed
Internal keyboard with PS/2 mouse	pins 2 & 3 closed	pins 2 & 3 closed	pins 2 & 3 closed
Internal keyboard without PS/2 mouse	pins 2 & 3 closed	pins 2 & 3 closed	pins 1 & 2 closed

KEYBOARD CONTROLLER CONFIGURATION (CON'T)			
Type	RN1	RN2	RN3
External keyboard	Installed	Not installed	Not installed
Internal keyboard with PS/2 mouse	Not installed	Installed	Not installed
Internal keyboard without PS/2 mouse	Not installed	Not installed	Installed

Note: The locations of RN1, RN2, & RN3 are unidentified.