ENPC TECHNOLOGY CORPORATION

EP-PT11 (REV. 1.4)

Device Type	Mainboard
Processor	CX 686MX/CX M2/AM K5/AM K6/Pentium/Pentium MMX
Processor Speed	90/100/120/133/150/166/180/200/233MHz
Chip Set	Intel 430TX
Maximum Onboard Memory	256MB (EDO & SDRAM supported)
Cache	256/512KB
BIOS	AMI/Award
Dimensions	220mm x 250mm
I/O Options	32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel interface, PS/2 mouse interface, serial interfaces (2), IR connectors (2), USB interfaces (2), ATX power connector, External battery connector
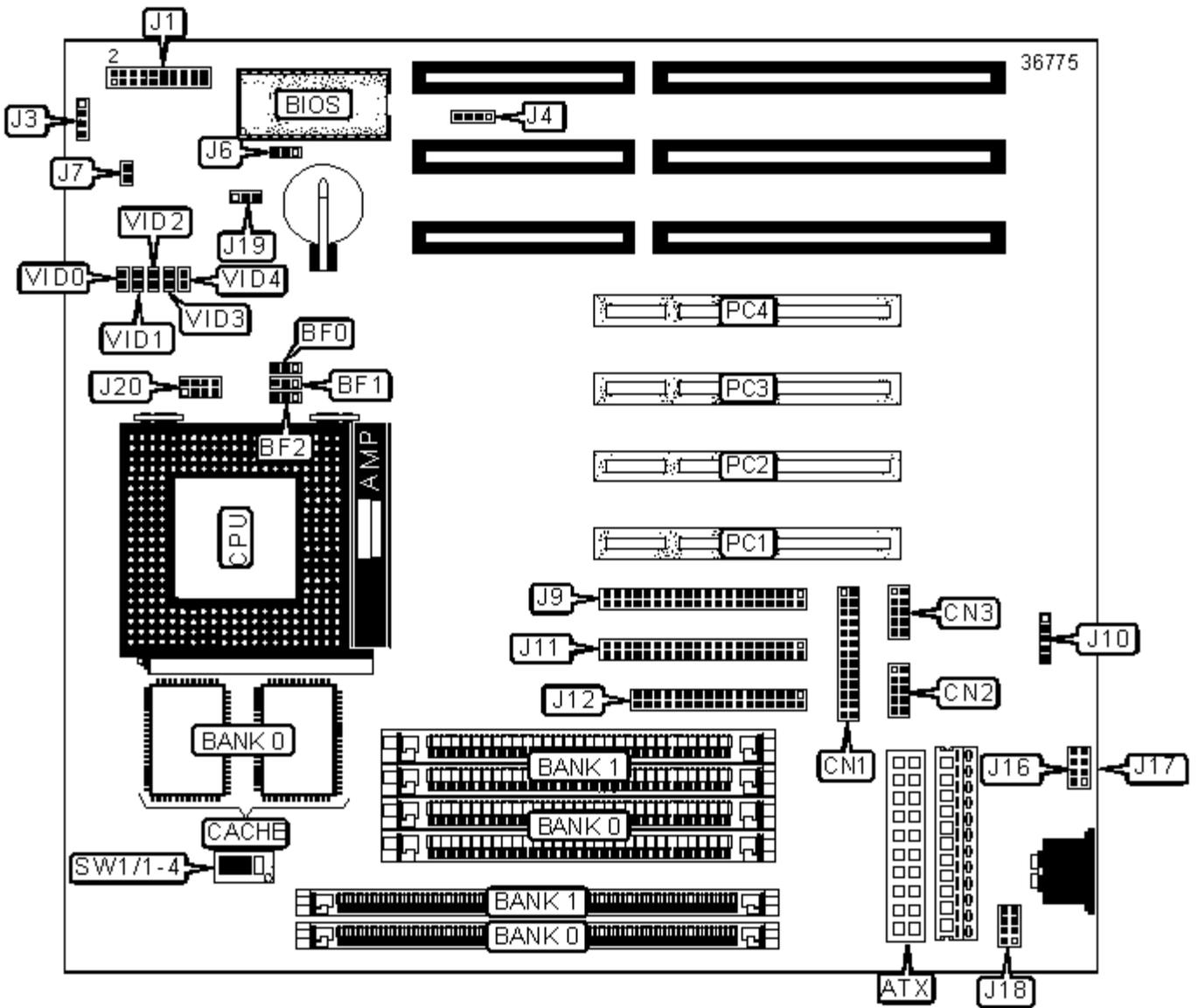
CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
ATX power connector	ATX	External battery connector	J4

Parallel interface	CN1	CPU fan power	J7
Serial interface 2	CN2	IDE interface 1	J9
Serial interface 1	CN3	IR connector (rear)	J10
Speaker	J1/Pins 1, 3, 5, 7	IDE interface 2	J11
IDE interface LED	J1/Pins 2 & 4	Floppy drive interface	J12
Turbo LED	J1/Pins 6 & 8	USB interface 1	J16
Power LED & keylock	J1/Pins 9, 11, 13, 15, 17	USB interface 2	J17
Power switch	J1/Pins 10 & 12	PS/2 mouse interface	J18
Reset switch	J1/Pins 18 & 20	32-bit PCI slots	PC1 - PC4
IR connector (front)	J3		

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
» CMOS memory normal operation	J6	Pins 2 & 3 closed
CMOS memory clear	J6	Pins 1 & 2 closed
» Flash BIOS voltage selection +5v	J19	Pins 1 & 2 closed
Flash BIOS voltage selection +12v	J19	Pins 2 & 3 closed
» Factory configured - do not alter	SW1/4	Off

SIMM CONFIGURATION		
Size	**Bank 0**	**Bank 1**
8MB	(2) 1M x 36	None
16MB	(2) 2M x 36	None
16MB	(2) 1M x 36	(2) 1M x 36
24MB	(2) 2M x 36	(2) 1M x 36
32MB	(2) 4M x 36	None
32MB	(2) 2M x 36	(2) 2M x 36
40MB	(2) 4M x 36	(2) 1M x 36
48MB	(2) 4M x 36	(2) 2M x 36

64MB	(2) 8M x 36	None
64MB	(2) 4M x 36	(2) 4M x 36
72MB	(2) 8M x 36	(2) 1M x 36
80MB	(2) 8M x 36	(2) 2M x 36
96MB	(2) 8M x 36	(2) 4M x 36
128MB	(2) 8M x 36	(2) 8M x 36
128MB	(2) 16M x 36	None
136MB	(2) 16M x 36	(2) 1M x 36
144MB	(2) 16M x 36	(2) 2M x 36
160MB	(2) 16M x 36	(2) 4M x 36
192MB	(2) 16M x 36	(2) 8M x 36
256MB	(2) 16M x 36	(2) 16M x 36

Note: Board accepts EDO & SDRAM memory.
Note: If using both SIMM and DIMM memory, only one bank of each may be filled simultaneously.

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.
Note: If using both SIMM and DIMM memory, only one bank of each may be filled simultaneously.

CLOCK SPEED SELECTION			
Speed	**SW1/1**	**SW1/2**	**SW1/3**
55MHz	On	On	Off
60MHz	On	Off	Off
66.6MHz	Off	Off	Off
68.5MHz	Off	Off	On
75MHz	Off	On	Off
83.3MHz	On	On	On

CPU TYPE SELECTION	
Type	**J20**
CX 6x86 MX	Pins 1 & 2, 3 & 4 closed
AM K5	Pins 1 & 2, 3 & 4 closed
Pentium	Pins 1 & 2, 3 & 4 closed
CX M2	Pins 5 & 6, 7 & 8 closed
AM K6	`Pins 5 & 6, 7 & 8 closed
Pentium MMX	Pins 5 & 6, 7 & 8 closed

;

CPU MULTIPLIER SELECTION (CX 6X86)

	Setting	BF0	BF1	BF2
»	2x	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
	2x	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
	3x	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
	3x	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed

CPU MULTIPLIER SELECTION (CX M2)

	Setting	BF0	BF1	BF2
»	2x	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
	2.5x	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
	3x	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
	3.5x	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed

CPU MULTIPLIER SELECTION (AM K5)

	Setting	BF0	BF1	BF2
»	1.5x	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
	1.5x	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
	1.75x	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
	2x	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed

CPU MULTIPLIER SELECTION (AM K6)

	Setting	BF0	BF1	BF2
	2.5x	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
	3x	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
	3.5x	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed

CPU MULTIPLIER SELECTION (PENTIUM)

	Setting	BF0	BF1	BF2
	1.5x	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
»	2x	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
	2.5x	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
	3x	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed

CPU MULTIPLIER SELECTION (PENTIUM MMX)				
	Setting	**BF0**	**BF1**	**BF2**
»	2x	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
	2.5x	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
	3x	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
	3.5x	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed

CPU VOLTAGE SELECTION					
	Voltage	**VID0**	**VID1**	**VID2**	**VID3**	**VID4**
	1.3V	Open	Open	Open	Open	Closed
	1.4V	Open	Closed	Open	Open	Closed
	1.5V	Open	Open	Closed	Open	Closed
	1.6V	Open	Closed	Closed	Open	Closed
	1.7V	Open	Open	Open	Closed	Closed
	1.8V	Open	Closed	Open	Closed	Closed
	1.9V	Open	Open	Closed	Closed	Closed
	2.0V	Open	Open	Open	Open	Open
	2.1V	Closed	Open	Open	Open	Open
	2.2V	Open	Closed	Open	Open	Open
	2.3V	Closed	Closed	Open	Open	Open
	2.4V	Open	Open	Closed	Open	Open

	2.5V	Closed	Open	Closed	Open	Open
	2.6V	Open	Closed	Closed	Open	Open
	2.7V	Closed	Closed	Closed	Open	Open
	2.8V	Open	Open	Open	Closed	Open
	2.9V	Closed	Open	Open	Closed	Open
	3.0V	Open	Closed	Open	Closed	Open
	3.1V	Closed	Closed	Open	Closed	Open
	3.2V	Open	Open	Closed	Closed	Open
»	3.3V	Closed	Open	Closed	Closed	Open
	3.4V	Open	Closed	Closed	Closed	Open
	3.5V	Closed	Closed	Closed	Closed	Open