TYAN COMPUTER CORPORATION

S1590

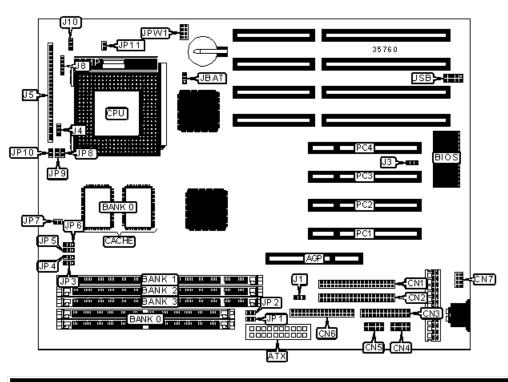|	
Device Type	Mainboard
Processor	CX 6X86/IBM 6X86/CX 686MX/IBM 6X86MX/CX MII/IDT C6/
	AM K5/ AM K6/Pentium/Pentium MMX
Processor Speed	75/90/100/120/133/150/166/180/200/225/233/266/300MHz
Chip Set	VIA MVP3
Maximum Onboard Memory	768MB (EDO & SDRAM supported)
Cache	1024KB
BIOS	Award
Dimensions	254mm x 218mm
I/O Options	32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse interface, serial ports (2), IR connector, USB connector, ATX power connector, AGP slot, wake on LAN connector

CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
AGP slot	AGP	Soft off power supply	J5/pins 1 & 2
ATX power connector	ATX	Green PC connector	J5/pins 3 & 4
IDE interface 1	CN1	IR connector	J5/pins 6 – 11
IDE interface 2	CN2	IDE interface LED	J5/pins 13 & 14

Parallel port	CN3	Power LED	J5/pins 18 & 20
Serial port 2	CN4	Reset switch	J5/pins 22 & 23
Serial port 1	CN5	Speaker	J5/pins 24 - 27
Floppy drive interface	CN6	Power LED & keylock	J8
PS/2 mouse interface	CN7	Chassis fan power	J10
Chassis fan power	J1	32-bit PCI slots	PC1 – PC4
Wake on LAN connector	J3	USB connector	USB
Chassis fan power	J4		

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
Clock speed select CPU clock	JP6	Pins 1 & 2 closed
Clock speed select AGP clock	JP6	Pins 2 & 3 closed
Power supply type select AT	JP7	Closed
Power supply type select ATX	JP7	Open
» CMOS memory normal operation	JBAT	Pins 1 & 2 closed
CMOS memory clear	JBAT	Pins 2 & 3 closed

SIMM CONFIGURATION	
Size	**Bank 0**
8MB	(2) 1M x 36
16MB	(2) 2M x 36
32MB	(2) 4M x 36
64MB	(2) 8M x 36
128MB	(2) 16M x 36

256MB	(2) 32M x 36

Note: Board accepts EDO memory.

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
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
64MB	(1) 4M x 64	(1) 4M x 64	None
64MB	(1) 8M x 64	None	None
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
128MB	(1) 8M x 64	(1) 8M x 64	None
128MB	(1) 16M x 64	None	None
164MB	(1) 16M x 64	(1) 1M x 64	None
144MB	(1) 16M x 64	(1) 1M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64	None
160MB	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64	None
192MB	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64	None
192MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64

256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
256MB	(1) 16M x 64	(1) 16M x 64	None
256MB	(1) 32M x 64	None	None
264MB	(1) 32M x 64	(1) 1M x 64	None
272MB	(1) 32M x 64	(1) 1M x 64	(1) 1M x 64
272MB	(1) 32M x 64	(1) 2M x 64	None
288MB	(1) 32M x 64	(1) 4M x 64	None
320MB	(1) 32M x 64	(1) 4M x 64	(1) 4M x 64
320MB	(1) 32M x 64	(1) 8M x 64	None
384MB	(1) 32M x 64	(1) 8M x 64	(1) 8M x 64
384MB	(1) 32M x 64	(1) 16M x 64	None
384MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64
512MB	(1) 32M x 64	(1) 16M x 64	(1) 16M x 64
512MB	(1) 32M x 64	(1) 32M x 64	None
768MB	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64
Note: Board accepts SDRAM memory.			

DIMM VOLTAGE CONFIGURATION

Voltage	JP1	JP2
3v	Open	Closed
5v	Closed	Open

CACHE CONFIGURATION

Size	Bank 0
1MB	(2) 128 x 32

CPU SPEED SELECTION (CX 6X86)								
CPU speed	**Clock speed**	**Multiplier**	**JP3**	**JP4**	**JP5**	**JP8**	**JP9**	**JP10**
166MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	N/A	N/A	N/A
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3	N/A	N/A	N/A
Note: Pins designated should be in the closed position.								

CPU SPEED SELECTION (IBM 6X86)								
CPU speed	**Clock speed**	**Multiplier**	**JP3**	**JP4**	**JP5**	**JP8**	**JP9**	**JP10**
166MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	N/A	N/A	N/A
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3	N/A	N/A	N/A

CPU SPEED SELECTION (CX 6X86MX)								
CPU speed	**Clock speed**	**Multiplier**	**JP3**	**JP4**	**JP5**	**JP8**	**JP9**	**JP10**
166MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	N/A	N/A	N/A
200MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	Closed	Closed	Open
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3	N/A	N/A	N/A
233MHz	75MHz	2.5x	1 & 2	2 & 3	2 & 3	Closed	Closed	Open
233MHz	83MHz	2x	1 & 2	2 & 3	1 & 2	N/A	N/A	N/A
Note: Pins designated should be in the closed position.								

CPU SPEED SELECTION (IBM 6X86MX)								
CPU speed	**Clock speed**	**Multiplier**	**JP3**	**JP4**	**JP5**	**JP8**	**JP9**	**JP10**
166MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	N/A	N/A	N/A
200MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	Closed	Closed	Open
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3	N/A	N/A	N/A
233MHz	75MHz	2.5x	1 & 2	2 & 3	2 & 3	Closed	Closed	Open

| 233MHz | 83MHz | 2x | 1 & 2 | 2 & 3 | 1 & 2 | N/A | N/A | N/A |

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX MII)

CPU speed	Clock speed	Multiplier	JP3	JP4	JP5	JP8	JP9	JP10
300MHz	66MHz	3.5x	1 & 2	2 & 3	2 & 3	Open	Open	Open
300MHz	75MHz	3x	1 & 2	1 & 2	2 & 3	Closed	Open	Open

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IBM MII)

CPU speed	Clock speed	Multiplier	JP3	JP4	JP5	JP8	JP9	JP10
300MHz	66MHz	3.5x	1 & 2	2 & 3	2 & 3	Open	Open	Open
300MHz	75MHz	3x	1 & 2	1 & 2	2 & 3	Closed	Open	Open

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IDT C6)

CPU speed	Clock speed	Multiplier	JP3	JP4	JP5	JP8	JP9	JP10
200MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	Closed	Open	Open
225MHz	75MHz	3x	1 & 2	1 & 2	2 & 3	Closed	Open	Open

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K5)

CPU speed	Clock speed	Multiplier	JP3	JP4	JP5	JP8	JP9	JP10
150MHz	60MHz	2.5x	2 & 3	2 & 3	2 & 3	Closed	Closed	Open
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	Closed	Closed	Open

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6)

CPU speed	Clock speed	Multiplier	JP3	JP4	JP5	JP8	JP9	JP10
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	Closed	Closed	Open
200MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	Closed	Open	Open
233MHz	66MHz	3.5x	1 & 2	2 & 3	2 & 3	Open	Open	Open
266MHz	66MHz	4x	1 & 2	2 & 3	2 & 3	Open	Closed	Closed
300MHz	66MHz	4.5x	1 & 2	2 & 3	2 & 3	Closed	Closed	Closed

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6-2)								
CPU speed	Clock speed	Multiplier	JP3	JP4	JP5	JP8	JP9	JP10
266MHz	66MHz	4x	1 & 2	2 & 3	2 & 3	Open	Closed	Closed
300MHz	100MHz	3x	1 & 2	1 & 2	1 & 2	Closed	Open	Open

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL)								
CPU speed	Clock speed	Multiplier	JP3	JP4	JP5	JP8	JP9	JP10
150MHz	60MHz	2.5x	2 & 3	2 & 3	2 & 3	Closed	Closed	Open
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	Closed	Closed	Open
200MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	Closed	Open	Open

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL MMX)								
CPU speed	Clock speed	Multiplier	JP3	JP4	JP5	JP8	JP9	JP10
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	Closed	Closed	Open
200MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	Closed	Open	Open
233MHz	66MHz	3.5x	1 & 2	2 & 3	2 & 3	Open	Open	Open

Note: Pins designated should be in the closed position.

CPU TYPE SELECTION	
Type	**JP11**
Single voltage CPUs	Closed
Dual voltage CPUs	Open

CPU VOLTAGE SELECTION				
Voltage	**JPW1/pins 1 & 2**	**JPW1/pins 3 & 4**	**JPW1/pins 5 & 6**	**JPW1/pins 7 & 8**
2.0v	Open	Open	Open	Open
2.1v	Closed	Open	Open	Open
2.2v	Open	Closed	Open	Open
2.7v	Closed	Closed	Closed	Open
2.8v	Open	Open	Open	Closed
2.9v	Closed	Open	Open	Closed
3.2v	Open	Open	Closed	Closed
3.3v	Closed	Open	Closed	Closed