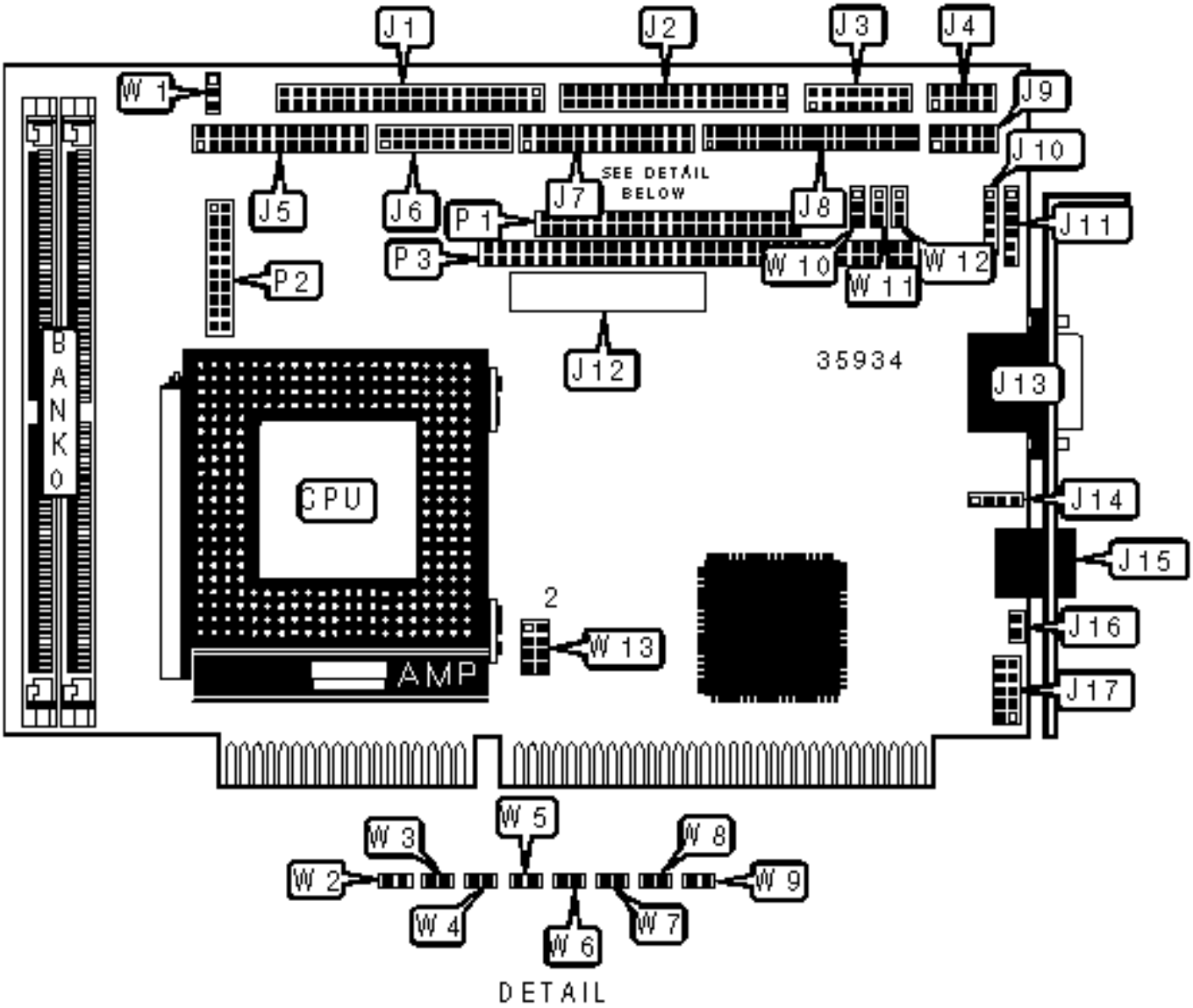
TEKNOR INDUSTRIAL COMPUTERS, INC.

VIPER821

Configuration



CONNECTIONS			
Purpose	Location	Purpose	Location
IDE interface	J1	Power connector	J11
Floppy drive interface	J2	Flash disk connector	J12
Keyboard/speaker connector	J3	VGA port	J13
Serial port 2	J4	PS/2 mouse interface	J14
Parallel port	J5	Ethernet 10BaseT connector	J15
Flat panel connector	J6	Chassis fan power	J16
VGA interface	J7	USB connector	J17
Flat panel connector	J8	PC/104 connector	P1
Serial port 1	J9	Regulator connector	P2
Power connector	J10	PC/104 connector	P3

USER CONFIGURABLE SETTINGS			
Function		Label	Position
»	Watchdog timer enabled	W8	Closed
	Watchdog timer disabled	W8	Open
»	Non maskable IRQ on power fail output disabled	W9	Open
	Non maskable IRQ on power fail output enabled	W9	Closed
»	Battery disabled	W10	Open
	Battery type select internal	W10	Pins 1 & 2 closed
	Battery type select external	W10	Pins 2 & 3 closed
»	Power failure select external power fail input to pin 6 on J11	W11	Pins 1 & 2 closed
	Power failure select internal/external batter when < 3v	W11	Pins 2 & 3 closed
»	Flat panel voltage select 5v	W12	Pins 1 & 2 closed
	Flat panel voltage select 3.3v	W12	Pins 2 & 3 closed

»	Factory configured - do not alter	W13/pins 1 & 2	Open
»	Factory configured - do not alter	W13/pins 3 & 4	Open
»	On board video enabled	W13/pins 5 & 6	Closed
	On board video disabled	W13/pins 5 & 6	Open
»	CPU < 233MHz	W13/pins 7 & 8	Open
	CPU > 233MHz	W13/pins 7 & 8	Closed

SIMM CONFIGURATION

Size	Bank 2
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.

CACHE CONFIGURATION

Note: The location of the cache is unidentified.

VIDEO MEMORY CONFIGURATION

Note: The location of the video memory is unidentified.

CPU SPEED SELECTION (AM K6)

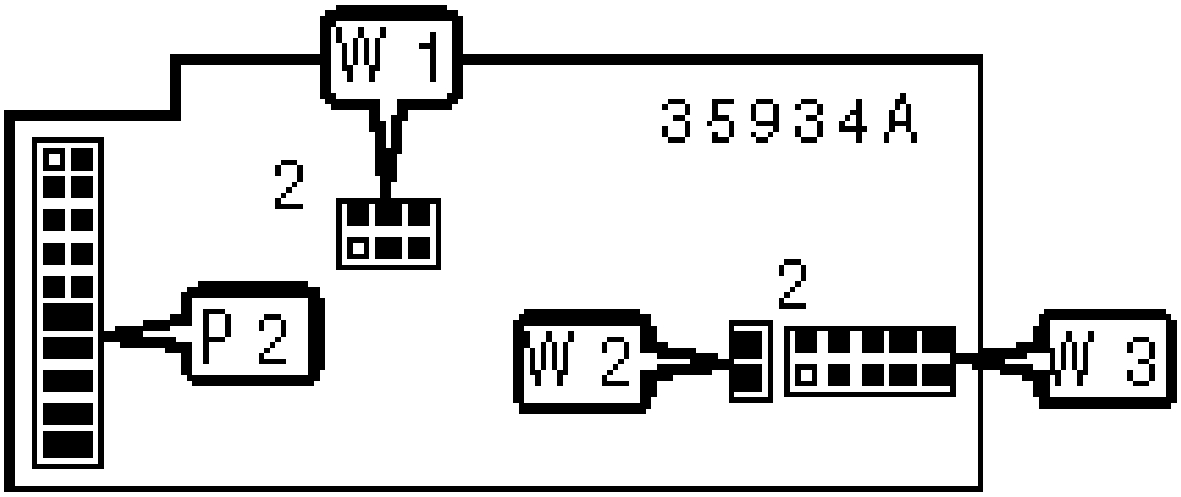
CPU speed	Clock speed	Multiplier	W1	W2	W3	W4	W5
166MHz	66MHz	2.5x	Closed	Open	Closed	Closed	Closed

200MHz	66MHz	3x	Closed	Open	Closed	Closed	Open
233MHz	66MHz	3.5x	Open	Open	Closed	Closed	Open

CPU SPEED SELECTION (INTEL)							
CPU speed	Clock speed	Multiplier	W1	W2	W3	W4	W5
75MHz	50MHz	1.5x	Open	Closed	Closed	Open	Open
90MHz	60MHz	1.5x	Open	Closed	Open	Open	Open
100MHz	66MHz	1.5x	Open	Open	Closed	Closed	Open
120MHz	60MHz	2x	Open	Closed	Open	Open	Closed
133MHz	66MHz	2x	Open	Open	Closed	Closed	Closed
150MHz	60MHz	2.5x	Closed	Closed	Open	Open	Closed
166MHz	66MHz	2.5x	Closed	Open	Closed	Closed	Closed
200MHz	66MHz	3x	Closed	Open	Closed	Closed	Open

CPU SPEED SELECTION (INTEL MMX)							
CPU speed	Clock speed	Multiplier	W1	W2	W3	W4	W5
166MHz	66MHz	2.5x	Closed	Open	Closed	Closed	Closed
200MHz	66MHz	3x	Closed	Open	Closed	Closed	Open
233MHz	66MHz	3.5x	Open	Open	Closed	Closed	Open

SERIAL PORT 2 SELECTION		
Setting	W6	W7
Termination resistors not installed	Open	Open
Termination resistors installed	Closed	Closed



REGULATOR CONNECTOR

CONNECTIONS	
Purpose	Location
Regulator connector	P2

CPU SPEED SELECTION (AM K6)				
CPU speed	Clock speed	Multiplier	W1	W2
166MHz	66MHz	2.5x	3 & 5, 4 & 6	Open
200MHz	66MHz	3x	3 & 5, 4 & 6	Open
233MHz	66MHz	3.5x	3 & 5, 4 & 6	Open
Note: Pins designated should be in the closed position.				

CPU SPEED SELECTION (AM K6, CON'T)							
CPU speed	Clock speed	Multiplier	W3/pins 1 & 2	W3/pins 3 & 4	W3/pins 5 & 6	W3/pins 7 & 8	W3/pins 9 & 10
166MHz	66MHz	2.5x	Closed	Open	Open	Closed	Open
200MHz	66MHz	3x	Closed	Open	Open	Closed	Open
233MHz	66MHz	3.5x	Open	Open	Closed	Closed	Open

CPU SPEED SELECTION (INTEL)				
CPU speed	Clock speed	Multiplier	W1	W2
100MHz	66MHz	1.5x	1 & 3, 2 & 4	Closed
120MHz	60MHz	2x	1 & 3, 2 & 4	Closed
133MHz	66MHz	2x	1 & 3, 2 & 4	Closed
150MHz	60MHz	2.5x	1 & 3, 2 & 4	Closed
166MHz	66MHz	2.5x	1 & 3, 2 & 4	Closed
200MHz	66MHz	3x	1 & 3, 2 & 4	Closed
Note: Pins designated should be in the closed position.				

CPU SPEED SELECTION (INTEL, CON'T)							
CPU speed	Clock speed	Multiplier	W3/pins 1 & 2	W3/pins 3 & 4	W3/pins 5 & 6	W3/pins 7 & 8	W3/pins 9 & 10
100MHz	66MHz	1.5x	Closed	Open	Closed	Closed	Open
120MHz	60MHz	2x	Closed	Open	Closed	Closed	Open
133MHz	66MHz	2x	Closed	Open	Closed	Closed	Open
150MHz	60MHz	2.5x	Closed	Open	Closed	Closed	Open
166MHz	66MHz	2.5x	Closed	Open	Closed	Closed	Open
200MHz	66MHz	3x	Closed	Open	Closed	Closed	Open

CPU SPEED SELECTION (INTEL MMX)				
CPU speed	Clock speed	Multiplier	W1	W2
166MHz	66MHz	2.5x	3 & 5, 4 & 6	Open
200MHz	66MHz	3x	3 & 5, 4 & 6	Open
233MHz	66MHz	3.5x	3 & 5, 4 & 6	Open
Note: Pins designated should be in the closed position.				

CPU SPEED SELECTION (INTEL MMX, CON’T)							
CPU speed	Clock speed	Multiplier	W3/pins 1 & 2	W3/pins 3 & 4	W3/pins 5 & 6	W3/pins 7 & 8	W3/pins 9 & 10
166MHz	66MHz	2.5x	Open	Open	Open	Closed	Open
200MHz	66MHz	3x	Open	Open	Open	Closed	Open
233MHz	66MHz	3.5x	Open	Open	Open	Closed	Open