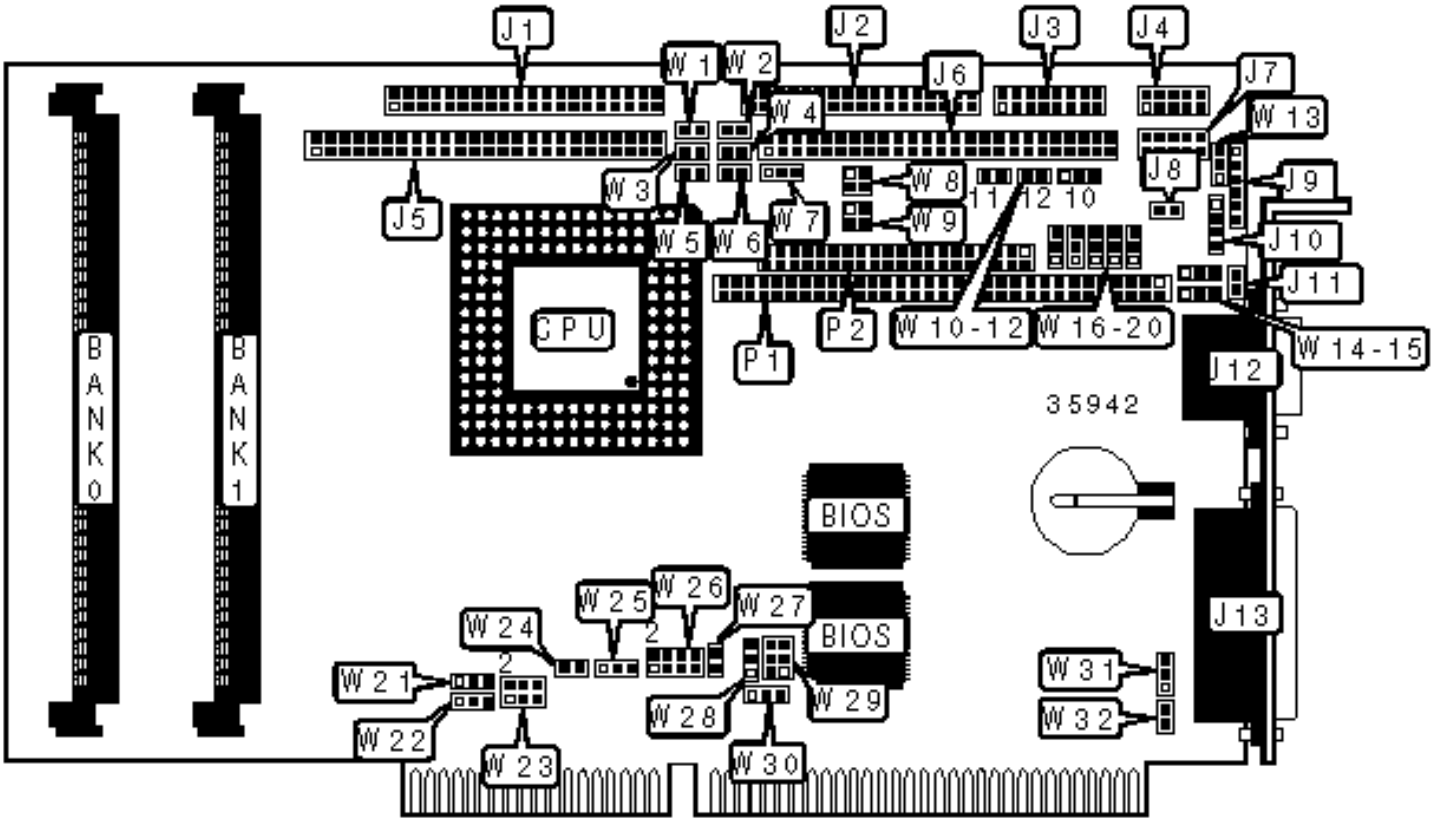
TEKNOR INDUSTRIAL COMPUTERS, INC.

VIPER880

Configuration



CONNECTIONS

Purpose	Location	Purpose	Location
IDE interface	J1	Chassis fan power	J8
Floppy drive interface	J2	Power connector	J9
Multifunction connector	J3	PS/2 mouse interface	J10
Serial port 2	J4	VGA port	J12
SCSI interface	J5	Parallel port	J13
Flat panel connector	J6	PC/104 connector	P1
Serial port 1	J7	PC/104 connector	P2

USER CONFIGURABLE SETTINGS

	Function	Label	Position
»	Normal boot enabled	J11	Open
	Emergency boot enabled	J11	Closed
»	IOCHRDY signal to IDE interface disabled	W1	Open
	IOCHRDY signal to IDE interface enabled	W1	Closed
»	Watchdog timer enabled	W2	Closed
	Watchdog timer disabled	W2	Open
»	Power fail monitoring disabled	W3	Open
	Power fail monitoring enabled	W3	Closed
»	Flash disk write enabled	W4	Closed
	Flash disk write disabled	W4	Open
»	SCSI address select 340H	W5	Open
	SCSI address select140H	W5	Closed
»	Flash BIOS write enabled	W6	Closed
	Flash BIOS write disabled	W6	Open

»	Pixel clock polarity positive	W7	Pins 1 & 2 closed
	Pixel clock polarity negative	W7	Pins 2 & 3 closed
»	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 J9	W13	Pins 1 & 2 closed
	Power failure select internal/external battery < 3v	W13	Pins 2 & 3 closed
»	On board video enabled	W26/pins 1 & 2	Open
	On board video disabled	W26/pins 1 & 2	Closed
»	Factory configured – do not alter	W26/pins 3 & 4	Unidentified
»	Standard mode enabled	W26/pins 5 & 6	Open
	VT100 mode enabled	W26/pins 5 & 6	Closed
»	Serial normal mode enabled	W26/pins 7 & 8	Open
	Serial download mode enabled	W26/pins 7 & 8	Closed
»	PS/2 mouse disabled	W27	Open
	PS/2 mouse enabled	W27	Closed
»	Monitor type select color	W32	Open
	Monitor type select monochrome	W32	Closed

SIMM CONFIGURATION

Size	Bank 0	Bank 1
1MB	(1) 256K x 36	None
2MB	(1) 512K x 36	None
2MB	(1) 256K x 36	(1) 256K x 36
3MB	(1) 512K x 36	(1) 256K x 36
4MB	(1) 1M x 36	None
4MB	(1) 512K x 36	(1) 512K x 36

5MB	(1) 1M x 36	(1) 256K x 36
6MB	(1) 1M x 36	(1) 512K x 36
8MB	(1) 2M x 36	None

SIMM CONFIGURATION		
Size	Bank 0	Bank 1
8MB	(1) 1M x 36	(1) 1M x 36
9MB	(1) 2M x 36	(1) 256K x 36
10MB	(1) 2M x 36	(1) 512K x 36
12MB	(1) 2M x 36	(1) 1M x 36
16MB	(1) 4M x 36	None
16MB	(1) 2M x 36	(1) 2M x 36
17MB	(1) 4M x 36	(1) 256K x 36
18MB	(1) 4M x 36	(1) 512K x 36
20MB	(1) 4M x 36	(1) 1M x 36
24MB	(1) 4M x 36	(1) 2M x 36
32MB	(1) 4M x 36	(1) 4M x 36

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	
Speed	W29

50iMHz	Pins 1 & 2, 3 & 4, 5 & 6 closed
66iMHz	Pins 3 & 4, 5 & 6 closed
75iMHz	Pins 1 & 2, 3 & 4, 5 & 6 closed
100iMHz	Pins 3 & 4, 5 & 6 closed

CPU TYPE SELECTION

Type	W22	W24	W25
80486SX	Pins 1 & 2 closed	Open	Open
80486DX	Pins 2 & 3 closed	Closed	Pins 1 & 2 closed
80486DX2	Pins 2 & 3 closed	Closed	Pins 1 & 2 closed
80486DX4	Pins 2 & 3 closed	Closed	Pins 1 & 2 closed
ODP486	Pins 2 & 3 closed	Closed	Pins 1 & 2 closed

BUSCLK SIGNAL SELECTION

Speed	W21
16MHz	Pins 2 & 3 closed
25MHz	Pins 1 & 2 closed
33MHz	Open

DMA CHANNEL SELECTION

	Channel	W28	W31
»	None	Open	Open
	1	Pins 1 & 2 closed	Pins 1 & 2 closed
	3	Pins 2 & 3 closed	Pins 2 & 3 closed

PARALLEL PORT INTERRUPT SELECTION

IRQ		W30
	None	Open
	IRQ5	Pins 1 & 2 closed
»	IRQ7	Pins 2 & 3 closed

SERIAL PORT 2 SELECTION					
Setting		W17	W18	W19	W20
»	RS-232	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
	RS-422	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
	RS-485	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed

SERIAL PORT LOOPBACK SELECTION			
Setting		W11	W12
»	Normal	Open	Open
	Loopback	Closed	Closed

I/O ADDRESS SELECTION		
Address		W23
»	190H	Pins 1 & 2, 3 & 4 closed
	290H	Pins 1 & 2 closed
	390H	Pins 3 & 4 closed
	390H	Open

SCSI DMA CHANNEL SELECTION			
Channel		W14	W15
»	None	Open	Open

	0	Pins 1 & 2 closed	Pins 2 & 3 closed
	5	Pins 2 & 3 closed	Pins 1 & 2 closed

SCSI INTERRUPT SELECTION		
IRQ		W16
	10	Pins 1 & 2 closed
	11	Pins 2 & 3 closed
»	None	Open

EDOUT SELECTION	
Setting	W8
EDOUT left to software	Open
EDOUT to pin 29 & ground to pin 17	Pins 1 & 3, 2 & 4 closed
EDOUT to pin 17 & ground to pin 29	Pins 1 & 2, 3 & 4 closed
Note: The above listed pins are located on J2.	

HDOUT SELECTION	
Setting	W9
HDOUT left to software	Open
HDOUT to pin 33 & ground to pin 27	Pins 1 & 3, 2 & 4 closed
HDOUT to pin 27 & ground to pin 33	Pins 1 & 2, 3 & 4 closed
Note: The above listed pins are located on J2.	