TEKNOR INDUSTRIAL COMPUTERS, INC.

VIPER803

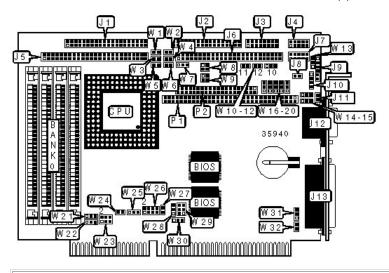|	
Device Type	Single board computer
Processor	80486SX/80486DX/80486DX2/80486DX4
Processor Speed	50(internal)/66(internal)/75(internal)/100(internal)MHz
Chip Set	VLSI 82C486
Video Chip Set	Chips and Technology
Maximum Onboard Memory	16MB
Maximum Video Memory	1MB
Cache	128/512KB
BIOS	AMI
Dimensions	181mm x 122mm
I/O Options	Floppy drive interface, IDE interface, SCSI interface, parallel port, serial ports (2), VGA port, PC/104 connectors (2)

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
4MB	(4) 1M x 9
16MB	(4) 4M x 9

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
	5	Pins 1 & 2 closed
»	7	Pins 2 & 3 closed

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.	

SITE METER
61,230