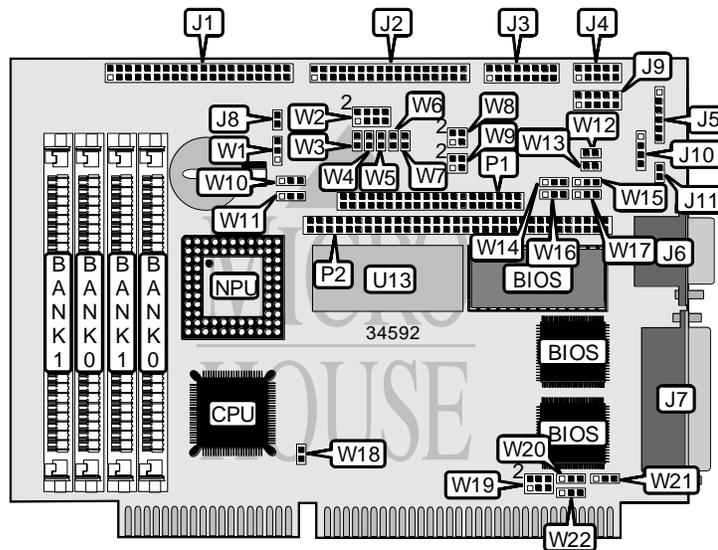


# TEKNOR INDUSTRIAL COMPUTERS, INC.

## VIPER 804

<b>Processor</b>	80386SX/CX486SLC/TI486SLC
<b>Processor Speed</b>	33MHz
<b>Chip Set</b>	Unidentified
<b>Video Chip Set</b>	None
<b>Maximum Onboard Memory</b>	16MB
<b>Maximum Video Memory</b>	None
<b>Cache</b>	512/1024KB
<b>BIOS</b>	Unidentified
<b>Dimensions</b>	Unidentified
<b>I/O Options</b>	Floppy drive interface, IDE interface, parallel port, PS/2 mouse interface, serial ports (3), PC/104 interfaces (2)
<b>NPU Options</b>	80387SX



CONNECTIONS			
Purpose	Location	Purpose	Location
IDE interface	J1	Parallel port	J7
Floppy drive interface	J2	External battery	J8
Keyboard, speaker, reset, LED	J3	Serial port 1 - internal	J9
Serial port 2	J4	PS/2 mouse interface	J10
Power connector	J5	PC/104 connectors	P1 & P2
Serial port 1 - external	J6		

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USER CONFIGURABLE SETTINGS		
Function	Label	Position
í BIOS boot select normal boot	J11	Open
BIOS boot select emergency boot	J11	Closed
External battery connected to J8	W1	Pins 1 & 2 closed
External battery connected to J5	W1	Pins 2 & 3 closed
í Power fail monitoring disabled	W3	Open
Power fail monitoring enabled	W3	Closed
í IOCHRDY signal to IDE interface disabled	W4	Open
IOCHRDY signal to IDE interface enabled	W4	Closed
í Watchdog timer enabled	W5	Closed
Watchdog timer disabled	W5	Open
í Flash BIOS write enabled	W6	Closed
Flash BIOS write disabled	W6	Open
í Flash disk write enabled	W7	Closed
Flash disk write disabled	W7	Open
í Battery type select internal	W10	Pins 1 & 2 closed
Battery type select external	W10	Pins 2 & 3 closed
í Power failure detection source external power fail (pin 6 on J5)	W11	Pins 1 & 2 closed
Power failure detection source internal/external battery <3v	W11	Pins 2 & 3 closed
í SYSCLK select 8MHz (asynchronous)	W18	Closed
SYSCLK select programmed in BIOS setup (synchronous)	W18	Open
í Parallel port IRQ select IRQ7	W20	Pins 2 & 3 closed
Parallel port IRQ select IRQ5	W20	Pins 1 & 2 closed

SIMM CONFIGURATION		
Size	Bank 0	Bank 1
1MB	(2) 256K x 9	(2) 256K x 9
2MB	(2) 1M x 9	None
4MB	(2) 1M x 9	(2) 1M x 9
8MB	(2) 4M x 9	None
16MB	(2) 4M x 9	(2) 4M x 9

SOLID STATE DISK CONFIGURATION
Note: To increase the size of the SSD, install upgrade in U13.

DMA CHANNEL SELECTION		
Channel	W21	W22
í None	Open	Open
1	Pins 1 & 2 closed	Pins 1 & 2 closed
3	Pins 2 & 3 closed	Pins 2 & 3 closed

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SERIAL PORT 2 LOOPBACK SELECTION		
Setting	W12	W13
í Normal	Open	Open
Loopback	Closed	Closed

SERIAL PORT 2 SELECTION				
Setting	W14	W15	W16	W17
í RS-232	Pins 1 & 2 closed			
RS-485	Pins 2 & 3 closed			

FLOPPY DRIVE EDOUT SELECTION	
Setting	W9
í Left to software	Open
Ground to pin 17 on J3	Pins 2 & 4 closed
Ground to pin 29 on J3	Pins 3 & 4 closed
EDOUT to pin 29 on J3	Pins 1 & 3 closed
EDOUT to pin 17 on J3	Pins 1 & 2 closed

FLOPPY DRIVE HDOUT SELECTION	
Setting	W8
í Left to software	Open
Ground to pin 27 on J3	Pins 2 & 4 closed
Ground to pin 33 on J3	Pins 3 & 4 closed
HDOUT to pin 33 on J3	Pins 1 & 3 closed
HDOUT to pin 27 on J3	Pins 1 & 2 closed

BASE I/O SELECTION	
Address	W19
í 190H	Pins 1 & 2, 3 & 4 closed
290H	Pins 1 & 2 closed
390H	Pins 3 & 4 closed
390H	Open

EXTENDED BIOS MODE SELECTION	
Setting	W2
VT100	Pins 5 & 6 closed
Serial download	Pins 7 & 8 closed
í Standard mode	Pins 5 & 6 closed
í Normal mode	Pins 7 & 8 closed