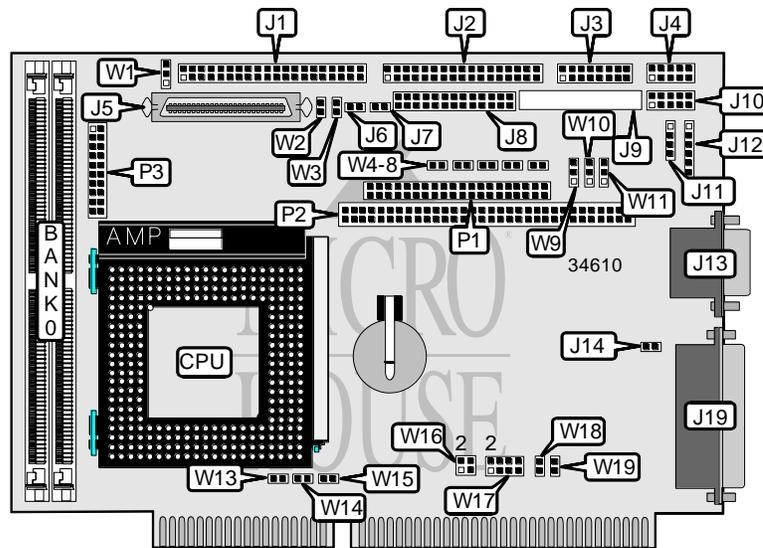


# TEKNOR INDUSTRIAL COMPUTERS, INC.

## VIPER 820

<b>Processor</b>	Pentium
<b>Processor Speed</b>	75/100/120/133/150/166/200/MHz
<b>Chip Set</b>	Intel
<b>Video Chip Set</b>	Cirrus Logic
<b>Maximum Onboard Memory</b>	256MB
<b>Maximum Video Memory</b>	1MB
<b>Cache</b>	256KB
<b>BIOS</b>	Award
<b>Dimensions</b>	181mm x 122mm
<b>I/O Options</b>	Floppy drive interface, IDE interface, SCSI interface, green PC connector, parallel port, PS/2 mouse interface, serial ports (2), VGA port, VGA feature connector, flat panel connector, PC/104 connectors (2)
<b>NPU Options</b>	None



CONNECTIONS			
Purpose	Location	Purpose	Location
IDE interface	J1	Flat panel connector	J9
Floppy drive interface	J2	Serial port 1	J10
Keyboard, speaker, reset, LED	J3	PS/2 mouse interface	J11
Serial port 2	J4	Power connector	J12
SCSI interface	J5	VGA port	J13
Green PC connector	J6	Parallel port	J19
Chassis fan power	J7	PC/104 connectors	P1 & P2
VGA feature connector	J8	Regulator connector	P3

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USER CONFIGURABLE SETTINGS		
Function	Label	Position
í Power fail monitoring disabled	W8	Open
Power fail monitoring enabled	W8	Closed
í Power failure detection source external power fail (pin 6 on J12)	W9	Pins 1 & 2 closed
Power failure detection source internal/external battery <3v	W9	Pins 2 & 3 closed
Battery type select internal	W10	Pins 1 & 2 closed
Battery type select external	W10	Pins 2 & 3 closed
í Flat panel voltage select 5v	W11	Pins 1 & 2 closed
Flat panel voltage select 3.3v	W11	Pins 2 & 3 closed
í BIOS boot select normal boot	W18	Open
BIOS boot select emergency boot	W18	Closed
í Watchdog timer enabled	W19	Closed
Watchdog timer disabled	W19	Open

SIMM CONFIGURATION	
Size	Bank 0
2MB	(2) 256K x 36
4MB	(2) 512K x 36
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

CACHE CONFIGURATION
Note: 256KB cache is factory installed and is not configurable.

VIDEO MEMORY CONFIGURATION
Note: 1MB video memory is factory installed and is not configurable.

CPU SPEED SELECTION							
CPU speed	Clock speed	Multiplier	W2	W3	W13	W14	W15
75MHz	50MHz	1.5x	Closed	Closed	Open	Open	Open
100MHz	66MHz	1.5x	Open	Closed	Closed	Open	Open
120MHz	60MHz	2x	Closed	Open	Open	Closed	Open
133MHz	66MHz	2x	Open	Closed	Closed	Closed	Open
150MHz	60MHz	2.5x	Closed	Open	Open	Closed	Closed
166MHz	66MHz	2.5x	Open	Closed	Closed	Closed	Closed
200MHz	66MHz	3x	Open	Closed	Closed	Open	Closed

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SERIAL PORT 2 TERMINATION SELECTION		
Setting	W6	W7
í Disabled	Open	Open
Enabled	Closed	Closed

BASE I/O SELECTION	
Address	W16
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	W17
VT100	Pins 3 & 4 closed
Serial download	Pins 1 & 2 closed
í Standard mode	Pins 3 & 4 closed
í Normal mode	Pins 1 & 2 closed

TERMINATION SELECTION	
Setting	W1
í Hardware configuration	Pins 2 & 3 closed
Software configuration	Pins 1 & 2 closed
Disabled	Open

FEATURE CONNECTOR SELECTION		
Setting	W4	W5
í Disabled	Closed	Open
Enabled	Open	Closed
V-port	Open	Open