DIGITAL SCIENTIFIC RESEARCH, INC.
I S B B - 5 U 4

Processor	80386SX (located on external CPU card).
Processor Speed	25/33 MHz
Chip Set	ACC/OPTI/ATMEL
Max. Onboard DRAM	32MB
Cache	None
BIOS	AMI
Dimensions	220mm X 220mm
I/O Options	Bus mouse, floppy drive interface, game port, IDE interface, parallel port, CPU card slot, serial ports (2)
NPU Options	80387SX (located on external CPU card)
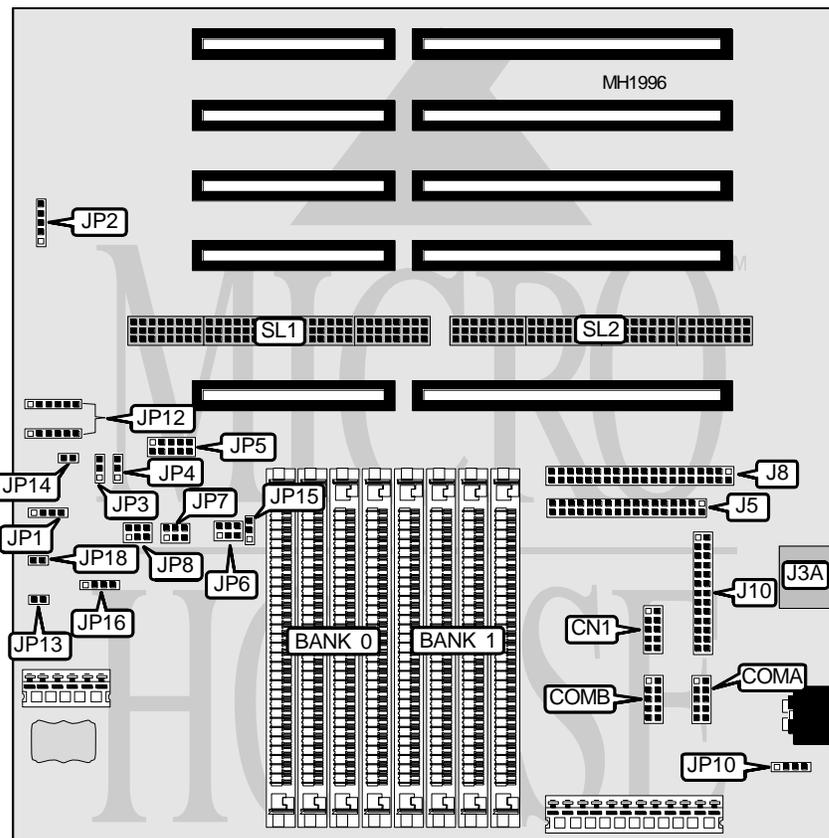
CONNECTIONS			
Purpose	Location	Purpose	Location
Bus mouse connector	CN1	External keyboard connector	JP2
Serial port 1	COMA	External battery	JP10
Serial port 2	COMB	Keylock and power LED	JP12
Game port	J2	Turbo LED	JP13
Bus mouse port	J3A	Reset switch	JP14
Floppy drive interface	J5	IDE LED	JP16
IDE interface	J8	Turbo switch	JP18
Parallel port connector	J10	CPU card slots	SL1, SL2
Speaker	JP1		
Note: The game port is optional and the location is unidentified by the manufacturer.			

DIGITAL SCIENTIFIC RESEARCH, INC.
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USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
[i] Floppy adaptor enabled	JP3	pins 2 & 3 closed
Floppy adaptor disabled	JP3	pins 1 & 2 closed
[i] IDE adaptor enabled	JP4	pins 2 & 3 closed
IDE adaptor disabled	JP4	pins 1 & 2 closed
[i] LPT set at IRQ7	JP15	pins 2 & 3 closed
LPT set at IRQ5	JP15	pins 1 & 2 closed

SERIAL PORT CONFIGURATION			
Port 1 (COMA)	Port 2 (COMB)	JP7	JP8
COM1	COM2	Closed	Closed
COM1	COM4	Closed	Open
COM3	COM2	Open	Closed
COM3	COM4	Open	Open
Disabled	COM2	Open	Closed
Disabled	COM4	Open	Open
COM1	Disabled	Closed	Open
COM3	Disabled	Open	Open
Disabled	Disabled	Open	Open

DRAM CONFIGURATION		
Size	Bank 0	Bank 1
1MB	(4) 256K x 9	NONE
2MB	(4) 256K x 9	(4) 256K x 9
4MB	(4) 1M x 9	NONE
5MB	(4) 1M x 9	(4) 256K x 9
8MB	(4) 1M x 9	(4) 1M x 9
16MB	(4) 4M x 9	NONE
17MB	(4) 4M x 9	(4) 256K x 9
20MB	(4) 4M x 9	(4) 1M x 9
32MB	(4) 4M x 9	(4) 4M x 9

BUS MOUSE PORT CONFIGURATION	
Setting	JP5
[i] Enabled / IRQ5	Closed
IRQ 4	Open
IRQ3	Open
IRQ 2/9	Open
Disabled	Open

PARALLEL PORT CONFIGURATION	
Setting	JP6
[i] LPT 1/ address 378h	Closed
LPT 2 / address 278h	Open
Disabled	Open

DIGITAL SCIENTIFIC RESEARCH, INC.
I S B B - S U 4

Processor	Dependant on external CPU card installed.
Processor Speed	Dependant on external CPU card installed.
Chip Set	ACC
Max. Onboard DRAM	32MB
Cache	None
BIOS	Dependant on external CPU card installed.
Dimensions	330mm x 218mm
I/O Options	Proprietary external CPU card slot, bus mouse port, floppy drive interface, IDE interface, parallel ports (2), PS/2 mouse port, serial port
NPU Options	None
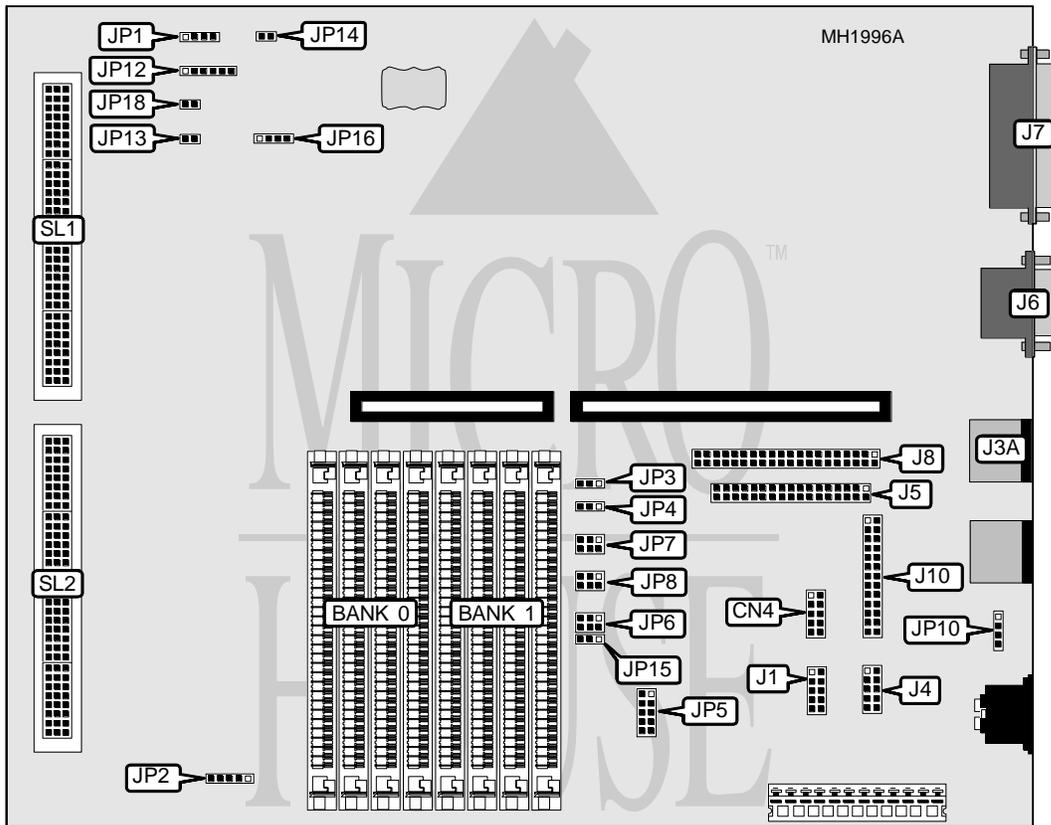
CONNECTIONS			
Purpose	Location	Purpose	Location
Bus mouse connector	CN4	Speaker	JP1
Serial port (COMB)	J1	Front keyboard header	JP2
Bus mouse port	J3A	External battery	JP10
Serial port (COMA)	J4	Power LED & keylock	JP12
Floppy drive interface	J5	Turbo LED	JP13
Serial port	J6	Reset switch	JP14
Parallel port 1	J7	IDE interface LED	JP16
IDE interface	J8	Turbo switch	JP18
Parallel port 2	J10	CPU expansion card slots	SL1, SL2

DIGITAL SCIENTIFIC RESEARCH, INC.
I S B B - S U 4

USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
Floppy disk drive enabled	JP3	pins 1 & 2 closed
Floppy disk drive disabled	JP3	pins 2 & 3 closed
i IDE hard disk drive enabled	JP4	pins 1 & 2 closed
IDE hard disk drive disabled	JP4	pins 2 & 3 closed
Bus mouse enabled	JP5	pins 1 & 2 closed
Bus mouse disabled	JP5	Open
i LPT interrupt select IRQ7	JP15	pins 1 & 2 closed
LPT interrupt select IRQ5	JP15	pins 2 & 3 closed

SERIAL PORT CONFIGURATION			
Port 1 (COMA)	Port 2 (COMB)	JP7	JP8
i COM1	i COM2	pins 1 & 2 closed	pins 1 & 2 closed
COM1	COM4	pins 1 & 2 closed	pins 3 & 4 closed
COM1	Disabled	pins 1 & 2 closed	pins 5 & 6 closed
COM3	COM2	pins 3 & 4 closed	pins 1 & 2 closed
COM3	Disabled	pins 3 & 4 closed	pins 5 & 6 closed
Disabled	COM2	pins 5 & 6 closed	pins 1 & 2 closed
Disabled	COM4	pins 5 & 6 closed	pins 3 & 4 closed
Disabled	Disabled	pins 5 & 6 closed	pins 5 & 6 closed

PARALLEL PORT CONFIGURATION	
LPT	JP6
i LPT1/2	pins 1 & 2 closed
LPT2/3	pins 3 & 4 closed
Disabled	pins 5 & 6 closed

BUS MOUSE INTERRRUPT CONFIGURATION	
Setting	JP5
i IRQ5	pins 3 & 4 closed
IRQ4	pins 5 & 6 closed
IRQ3	pins 7 & 8 closed
IRQ2	pins 9 & 10 closed

DRAM CONFIGURATION		
Size	Bank 0	Bank 1
1MB	(4) 256K x 9	NONE
2MB	(4) 256K x 9	(4) 256K x 9
4MB	(4) 1M x 9	NONE
5MB	(4) 256K x 9	(4) 1M x 9
8MB	(4) 1M x 9	(4) 1M x 9
16MB	(4) 4M x 9	NONE
32MB	(4) 4M x 9	(4) 4M x 9

DIGITAL SCIENTIFIC RESEARCH, INC.
I S B B - 8 C 4

Processor	Dependant on external CPU card installed.
Processor Speed	Dependant on external CPU card installed.
Chip Set	ACC/OPTi/ATMEL
Max. Onboard DRAM	64MB
Cache	Dependant on external CPU card installed.
BIOS	AMI
I/O Options	CPU card slot, floppy drive interface, game port, IDE interface, parallel port, PS/2 mouse port, serial ports (2)
NPU Options	Dependant on external CPU card installed.
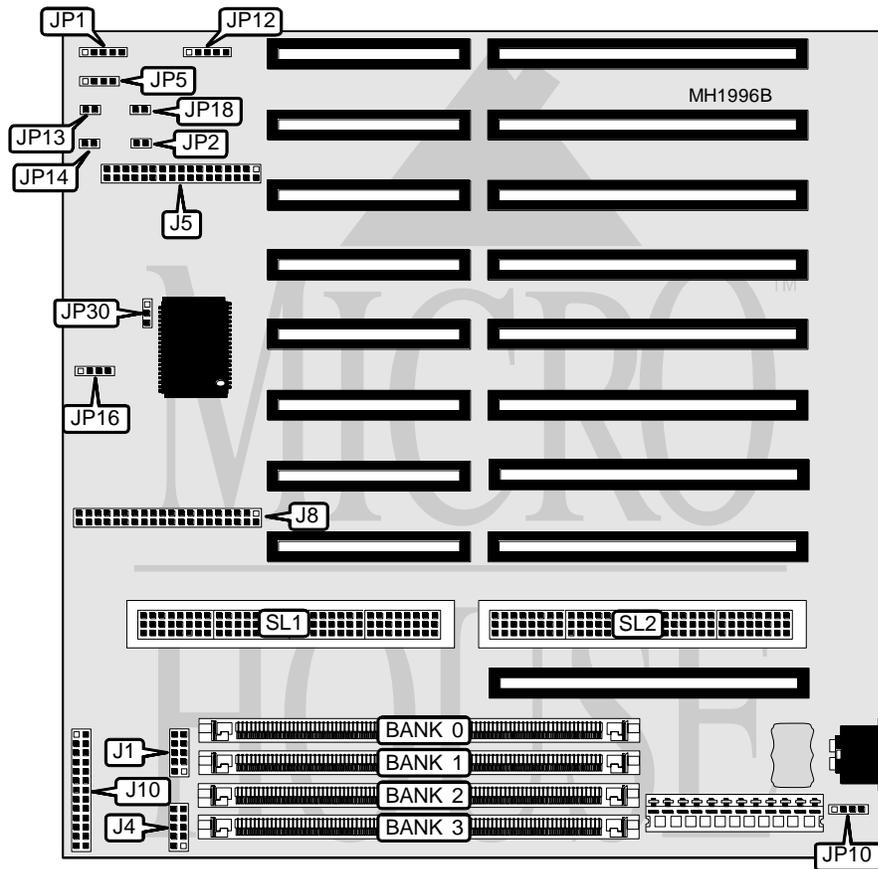
CONNECTIONS			
Purpose	Location	Purpose	Location
Serial port 1	J1	External battery	JP10
Serial port 2	J4	Power LED & keylock	JP12
Floppy drive interface	J5	Turbo LED	JP13
IDE inteface	J8	Reset switch	JP14
Parallel port	J10	IDE interface LED	JP16
External keyboard connector	JP1	Turbo switch	JP18
Speaker	JP5	CPU card slots	SL1, SL2
Note: The PS/2 mouse is optional and the connector location is unidentified by the manufacturer.			

DIGITAL SCIENTIFIC RESEARCH, INC.
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USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
[i] Power good signal detect normal	JP2	Open
Power good signal detect delayed	JP2	Closed
[i] Hardware select 82C721 I/O chip enabled	JP30	pins 1 & 2 closed
Hardware select 82C721 I/O chip disabled	JP30	pins 2 & 3 closed

DRAM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
1MB	(1) 256K x 36	NONE	NONE	NONE
2MB	(1) 256K x 36	(1) 256K x 36	NONE	NONE
3MB	(1) 256K x 36	(1) 256K x 36	(1) 512K x 36	c
3MB	(1) 512K x 36	(1) 256K x 36	NONE	NONE
4MB	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
4MB	(1) 1M x 36	NONE	NONE	NONE
4MB	(1) 256K x 36	(1) 256K x 36	(1) 512K x 36	NONE
4MB	(1) 512K x 36	(1) 256K x 36	(1) 256K x 36	NONE
5MB	(1) 512K x 36	(1) 256K x 36	(1) 512K x 36	NONE
5MB	(1) 1M x 36	(1) 256K x 36	NONE	NONE
5MB	(1) 256K x 36	(1) 1M x 36	NONE	NONE
6MB	(1) 1MBx 36	(1) 256K x 36	(1) 256K x 36	NONE
6MB	(1) 512K x 36	(1) 256K x 36	(1) 512K x 36	(1) 256K x 36
7MB	(1) 512K x 36	(1) 1M x 36	(1) 256K x 36	NONE
7MB	(1) 256K x 36	(1) 1M x 36	(1) 512K x 36	NONE
8MB	(1) 2M x 36	NONE	NONE	NONE
9MB	(1) 512K x 36	(1) 1M x 36	(1) 512K x 36	(1) 256K x 36
9MB	(1) 1M x 36	(1) 1M x 36	(1) 256K x 36	NONE
9MB	(1) 2M x 36	(1) 256K x 36	NONE	NONE
10MB	(1) 1M x 36	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36
10MB	(1) 256K x 36	(1) 256K x 36	(1) 1M x 36	(1) 1M x 36
10MB	(1) 2M x 36	(1) 256K x 36	(1) 256K x 36	NONE
10MB	(1) 256K x 36	(1) 256K x 36	(1) 2M x 36	NONE
11MB	(1) 512K x 36	(1) 256K x 36	(1) 2M x 36	NONE
11MB	(1) 2M x 36	(1) 256K x 36	(1) 512K x 36	NONE
11MB	(1) 512K x 36	(1) 256K x 36	(1) 1M x 36	(1) 1M x 36
11MB	(1) 1M x 36	(1) 1M x 36	(1) 512K x 36	(1) 256K x 36
12MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	NONE
12MB	(1) 2M x 36	(1) 1M x 36	NONE	NONE
13MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	(1) 256K x 36
13MB	(1) 256K x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
13MB	(1) 2M x 36	(1) 1M x 36	(1) 256K x 36	NONE
13MB	(1) 1M x 36	(1) 256K x 36	(1) 2M x 36	NONE
14MB	(1) 512K x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36

DIGITAL SCIENTIFIC RESEARCH, INC.
I S B B - 8 C 4

DRAM CONFIGURATION (continued)			
Size	Bank 0	Bank 1	Bank 2	Bank 3
14MB	(1) 1M x 36	(1) 1M x 36	(1) 512K x 36	(1) 1M x 36
14MB	(1) 512K x 36	(1) 1M x 36	(1) 2M x 36	NONE
14MB	(1) 2M x 36	(1) 1M x 36	(1) 512K x 36	NONE
14MB	(1) 2M x 36	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36
14MB	(1) 256K x 36	(1) 256K x 36	(1) 2M x 36	(1) 1M x 36
15MB	(1) 2M x 36	(1) 1M x 36	(1) 512K x 36	(1) 256K x 36
16MB	(1) 4M x 36	NONE	NONE	NONE
16MB	(1) 2M x 36	(1) 1M x 36	(1) 1M x 36	NONE
16MB	(1) 1M x 36	(1) 1M x 36	(1) 2M x 36	NONE
17MB	(1) 4M x 36	(1) 256K x 36	NONE	NONE
17MB	(1) 4M x 36	(1) 256K x 36	NONE	NONE
17MB	(1) 2M x 36	(1) 256K x 36	(1) 2M x 36	NONE
17MB	(1) 2M x 36	(1) 1M x 36	(1) 1M x 36	(1) 256K x 36
17MB	(1) 1M x 36	(1) 1M x 36	(1) 2M x 36	(1) 256K x 36
18MB	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36	NONE
18MB	(1) 256K x 36	(1) 256K x 36	(1) 4M x 36	NONE
18MB	(1) 2M x 36	(1) 256K x 36	(1) 2M x 36	(1) 256K x 36
19MB	(1) 512K x 36	(1) 4M x 36	(1) 256K x 36	NONE
19MB	(1) 4M x 36	(1) 256K x 36	(1) 512K x 36	NONE
20MB	(1) 2M x 36	(1) 1M x 36	(1) 2M x 36	NONE
20MB	(1) 4M x 36	(1) 1M x 36	NONE	NONE
20MB	(1) 1M x 36	(1) 4M x 36	NONE	NONE
20MB	(1) 512K x 36	(1) 4M x 36	(1) 512K x 36	NONE
21MB	(1) 512K x 36	(1) 4M x 36	(1) 512K x 36	(1) 256K x 36
21MB	(1) 4M x 36	(1) 256K x 36	(1) 1M x 36	NONE
21MB	(1) 2M x 36	(1) 1M x 36	(1) 2M x 36	(1) 256K x 36
21MB	(1) 2M x 36	(1) 256K x 36	(1) 2M x 36	(1) 1M x 36
21MB	(1) 256K x 36	(1) 1M x 36	(1) 4M x 36	NONE
21MB	(1) 4M x 36	(1) 256K x 36	(1) 1M x 36	NONE
22MB	(1) 4M x 36	(1) 256K x 36	(1) 1M x 36	(1) 256K x 36
22MB	(1) 256K x 36	(1) 256K x 36	(1) 1M x 36	(1) 4M x 36
23MB	(1) 4M x 36	(1) 512K x 36	(1) 256K x 36	(1) 1M x 36
23MB	(1) 256K x 36	(1) 256K x 36	(1) 512K x 36	(1) 4M x 36
23MB	(1) 1M x 36	(1) 256K x 36	(1) 4M x 36	(1) 512K x 36
23MB	(1) 512K x 36	(1) 4M x 36	(1) 256K x 36	(1) 1M x 36
24MB	(1) 4M x 36	(1) 2M x 36	NONE	NONE
24MB	(1) 2M x 36	(1) 4M x 36	NONE	NONE
24MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	NONE
24MB	(1) 1M x 36	(1) 1M x 36	(1) 4M x 36	NONE
25MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	(1) 256K x 36
25MB	(1) 256K x 36	(1) 1M x 36	(1) 1M x 36	(1) 4M x 36
25MB	(1) 2M x 36	(1) 256K x 36	(1) 4M x 36	NONE
25MB	(1) 4M x 36	(1) 256K x 36	(1) 2M x 36	NONE

DIGITAL SCIENTIFIC RESEARCH, INC.
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DRAM CONFIGURATION (continued)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
26MB	(1) 2M x 36	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36
26MB	(1) 256K x 36	(1) 256K x 36	(1) 2M x 36	(1) 4M x 36
26MB	(1) 512K x 36	(1) 4M x 36	(1) 2M x 36	NONE
26MB	(1) 2M x 36	(1) 4M x 36	(1) 512K x 36	NONE
27MB	(1) 2M x 36	(1) 4M x 36	(1) 512K x 36	(1) 256K x 36
27MB	(1) 512K x 36	(1) 256K x 36	(1) 2M x 36	(1) 4M x 36
28MB	(1) 2M x 36	(1) 4M x 36	(1) 1M x 36	NONE
28MB	(1) 4M x 36	(1) 1M x 36	(1) 2M x 36	NONE
28MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
28MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	(1) 4M x 36
29MB	(1) 2M x 36	(1) 4M x 36	(1) 1M x 36	(1) 256K x 36
29MB	(1) 256K x 36	(1) 1M x 36	(1) 2M x 36	(1) 4M x 36
30MB	(1) 512K x 36	(1) 1M x 36	(1) 2M x 36	(1) 4M x 36
30MB	(1) 2M x 36	(1) 4M x 36	(1) 512K x 36	(1) 1M x 36
32MB	(1) 4M x 36	(1) 4M x 36	NONE	NONE
32MB	(1) 2M x 36	(1) 4M x 36	(1) 2M x 36	NONE
32MB	(1) 8M x 36	NONE	NONE	NONE
33MB	(1) 8M x 36	(1) 256K x 36	NONE	NONE
33MB	(1) 4M x 36	(1) 4M x 36	(1) 256K x 36	NONE
33MB	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36	NONE
33MB	(1) 2M x 36	(1) 4M x 36	(1) 2M x 36	(1) 256K x 36
33MB	(1) 2M x 36	(1) 256K x 36	(1) 2M x 36	(1) 4M x 36
34MB	(1) 256K x 36	(1) 8M x 36	(1) 256K x 36	NONE
34MB	(1) 4M x 36	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36
34MB	(1) 256K x 36	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36
35MB	(1) 8M x 36	(1) 256K x 36	(1) 512K x 36	NONE
35MB	(1) 512K x 36	(1) 256K x 36	(1) 8M x 36	NONE
35MB	(1) 512K x 36	(1) 4M x 36	(1) 4M x 36	(1) 256K x 36
35MB	(1) 4M x 36	(1) 4M x 36	(1) 512K x 36	(1) 256K x 36
36MB	(1) 8M x 36	(1) 1M x 36	NONE	NONE
36MB	(1) 4M x 36	(1) 4M x 36	(1) 1M x 36	NONE
36MB	(1) 1M x 36	(1) 4M x 36	(1) 4M x 36	NONE
37MB	(1) 8M x 36	(1) 1M x 36	(1) 256K x 36	NONE
37MB	(1) 8M x 36	(1) 256K x 36	(1) 1M x 36	NONE
37MB	(1) 4M x 36	(1) 4M x 36	(1) 256K x 36	(1) 1M x 36
37MB	(1) 1M x 36	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36
38MB	(1) 8M x 36	(1) 1M x 36	(1) 512K x 36	NONE
38MB	(1) 512K x 36	(1) 1M x 36	(1) 8M x 36	NONE
38MB	(1) 512K x 36	(1) 4M x 36	(1) 4M x 36	(1) 1M x 36
38MB	(1) 4M x 36	(1) 4M x 36	(1) 512K x 36	(1) 1M x 36
38MB	(1) 4M x 36	(1) 512K x 36	(1) 1M x 36	(1) 4M x 36

DIGITAL SCIENTIFIC RESEARCH, INC.
I S B B - 8 C 4

DRAM CONFIGURATION (continued)			
Size	Bank 0	Bank 1	Bank 2	Bank 3
39MB	(1) 8M x 36	(1) 1M x 36	(1) 512K x 36	(1) 256K x 36
39MB	(1) 512K x 36	(1) 256K x 36	(1) 8M x 36	(1) 1M x 36
40MB	(1) 8M x 36	NONE	NONE	NONE
40MB	(1) 2M x 36	(1) 4M x 36	(1) 4M x 36	NONE
40MB	(1) 4M x 36	(1) 4M x 36	(1) 2M x 36	NONE
40MB	(1) 8M x 36	(1) 1M x 36	(1) 1M x 36	NONE
40MB	(1) 1M x 36	(1) 1M x 36	(1) 8M x 36	NONE
41MB	(1) 8M x 36	(1) 256K x 36	(1) 2M x 36	NONE
41MB	(1) 2M x 36	(1) 256K x 36	(1) 8M x 36	NONE
41MB	(1) 2M x 36	(1) 4M x 36	(1) 4M x 36	(1) 256K x 36
41MB	(1) 4M x 36	(1) 256K x 36	(1) 2M x 36	(1) 4M x 36
42MB	(1) 2M x 36	(1) 4M x 36	(1) 512K x 36	(1) 4M x 36
44MB	(1) 8M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
44MB	(1) 2M x 36	(1) 4M x 36	(1) 4M x 36	(1) 1M x 36
44MB	(1) 4M x 36	(1) 1M x 36	(1) 2M x 36	(1) 4M x 36
45MB	(1) 8M x 36	(1) 256K x 36	(1) 2M x 36	(1) 1M x 36
45MB	(1) 2M x 36	(1) 1M x 36	(1) 8M x 36	(1) 256K x 36
48MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	NONE
48MB	(1) 8M x 36	(1) 4M x 36	NONE	NONE
48MB	(1) 8M x 36	(1) 1M x 36	(1) 2M x 36	(1) 1M x 36
49MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	(1) 256K x 36
49MB	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
49MB	(1) 8M x 36	(1) 4M x 36	(1) 256K x 36	NONE
49MB	(1) 8M x 36	(1) 256K x 36	(1) 4M x 36	NONE
50MB	(1) 8M x 36	(1) 4M x 36	(1) 512K x 36	NONE
50MB	(1) 512K x 36	(1) 4M x 36	(1) 8M x 36	NONE
50MB	(1) 512K x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
50MB	(1) 4M x 36	(1) 4M x 36	(1) 512K x 36	(1) 4M x 36
51MB	(1) 8M x 36	(1) 4M x 36	(1) 512K x 36	(1) 256K x 36
51MB	(1) 512K x 36	(1) 256K x 36	(1) 8M x 36	(1) 4M x 36
52MB	(1) 8M x 36	(1) 4M x 36	(1) 1M x 36	NONE
52MB	(1) 4M x 36	(1) 1M x 36	(1) 8M x 36	NONE
53MB	(1) 8M x 36	(1) 4M x 36	(1) 1M x 36	(1) 256K x 36
53MB	(1) 8M x 36	(1) 1M x 36	(1) 256K x 36	(1) 4M x 36
54MB	(1) 8M x 36	(1) 1M x 36	(1) 512K x 36	(1) 4M x 36
54MB	(1) 512K x 36	(1) 4M x 36	(1) 8M x 36	(1) 1M x 36
56MB	(1) 8M x 36	(1) 1M x 36	(1) 1M x 36	(1) 4M x 36
56MB	(1) 1M x 36	(1) 1M x 36	(1) 8M x 36	(1) 4M x 36
56MB	(1) 8M x 36	(1) 4M x 36	(1) 2M x 26	NONE
56MB	(1) 2M x 26	(1) 4M x 36	(1) 8M x 36	NONE
57MB	(1) 8M x 36	(1) 256K x 36	(1) 2M x 26	(1) 4M x 36
57MB	(1) 2M x 26	(1) 4M x 36	(1) 8M x 36	(1) 256K x 36

DIGITAL SCIENTIFIC RESEARCH, INC.
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DRAM CONFIGURATION (continued)			
Size	Bank 0	Bank 1	Bank 2	Bank 3
64MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
64MB	(1) 8M x 36	(1) 4M x 36	(1) 4M x 36	NONE
64MB	(1) 4M x 36	(1) 4M x 36	(1) 8M x 36	NONE
Note: For CPU cards that only support 32MB of RAM, use bank 0 and bank 1 only. Double-sided SIMMs can only be installed in bank 2 and bank 3.			

DIGITAL SCIENTIFIC RESEARCH, INC.
I S P B - 1 2 T

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Processor	Dependant on external CPU card installed.
Processor Speed	Dependant on external CPU card installed.
Chip Set	Dependant on external CPU card installed.
Max. Onboard DRAM	Dependant on external CPU card installed.
Cache	Dependant on external CPU card installed.
BIOS	Dependant on external CPU card installed.
I/O Options	None
NPU Options	Dependant on external CPU card installed.
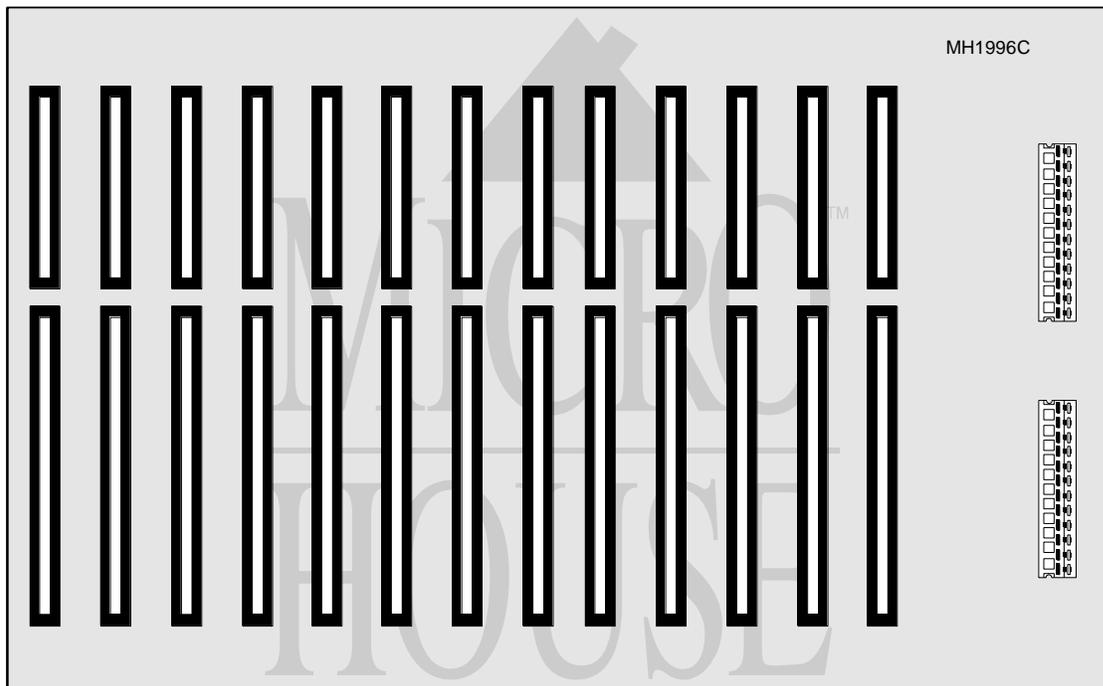
MH1996C

DIGITAL SCIENTIFIC RESEARCH, INC.
I B A C - 1 2 8

Processor	Dependant on CPU card installed.
Processor Speed	Dependant on CPU card installed.
Chip Set	ACC
Max. Onboard DRAM	32MB
Cache	None
BIOS	Dependant on CPU card installed.
I/O Options	Proprietary external CPU card slot, bus mouse port, parallel port, serial ports (2)
NPU Options	None
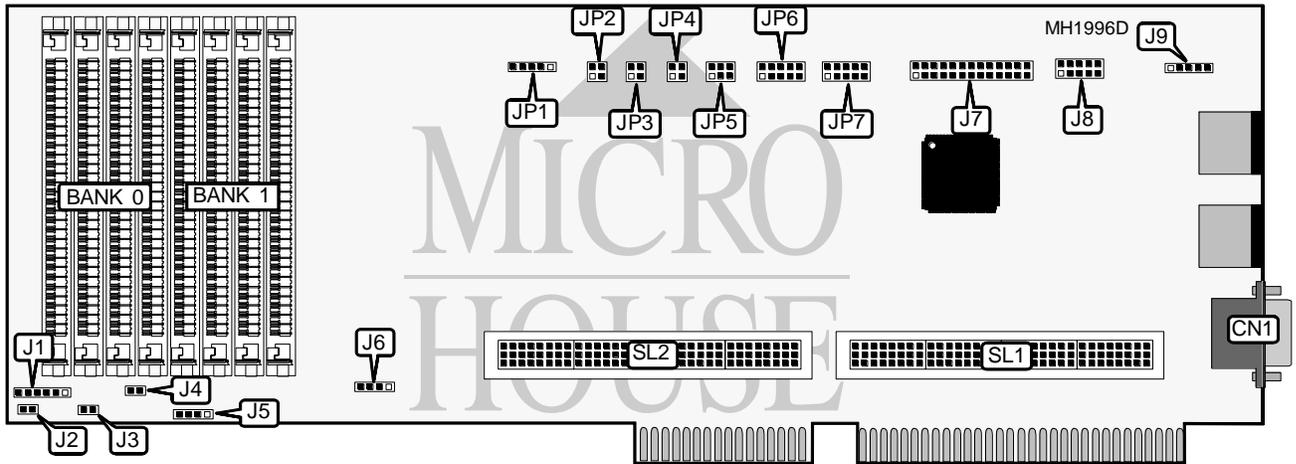
CONNECTIONS			
Purpose	Location	Purpose	Location
Serial port 1	CN1	External battery	J6
Power LED & keylock	J1	Parallel port	J7
Reset switch	J2	Serial port 2	J8
Turbo switch	J3	PS/2 mouse	JP1
Turbo LED	J4	External keyboard connector	J9
Speaker	J5	Proprietary external CPU slots	SL1, SL2

USER CONFIGURABLE SETTINGS		
Function	Jumper/Switch	Position
¹ LPT interrupt select IRQ7	JP2	pins 1 & 2 closed
LPT interrupt select IRQ5	JP2	pins 3 & 4 closed
¹ Serial port 2 interrupt select IRQ4	JP3	pins 1 & 2 closed
Serial port 2 interrupt select IRQ3	JP3	pins 3 & 4 closed
¹ Serial port 1 interrupt select IRQ3	JP4	pins 3 & 4 closed
Serial port 1 interrupt select IRQ4	JP4	pins 1 & 2 closed

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| SERIAL PORT 1 CONFIGURATION ||
Port 1	JP7
iCOM1	pins 1 & 2 closed
COM2	pins 3 & 4 closed
COM3	pins 5 & 6 closed
COM4	pins 7 & 8 closed
Disabled	pins 9 & 10 closed

| SERIAL PORT 2 CONFIGURATION ||
Port 2	JP6
iCOM2	pins 3 & 4 closed
COM1	pins 1 & 2 closed
COM3	pins 5 & 6 closed
COM4	pins 7 & 8 closed
Disabled	pins 9 & 10 closed

| PARALLEL PORT CONFIGURATION ||
LPT	JP5
LPT1	i pins 1 & 2 closed
LPT2	pins 3 & 4 closed
Disabled	pins 5 & 6 closed

| DRAM CONFIGURATION |||
Size	Bank 0	Bank 1
1MB	(4) 256K x 9	NONE
2MB	(4) 256K x 9	(4) 256K x 9
4MB	(4) 1M x 9	NONE
5MB	(4) 256K x 9	(4) 1M x 9
8MB	(4) 1M x 9	(4) 1M x 9
16MB	(4) 4M x 9	NONE
32MB	(4) 4M x 9	(4) 4M x 9

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Processor	80386DX
Processor Speed	25/33/40MHz
Chip Set	ACC
Max. Onboard DRAM	64MB
Cache	64/256KB
BIOS	AMI
NPU Options	None
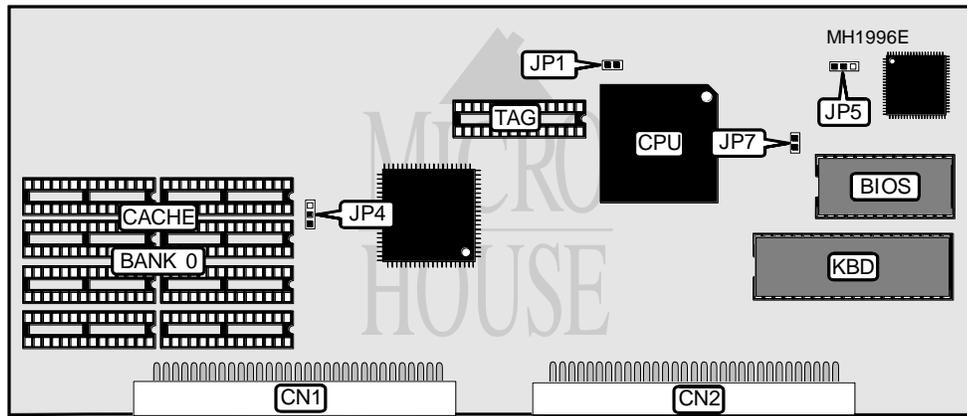
CONNECTIONS	
Purpose	Location
CPU card connectors	CN1, CN2

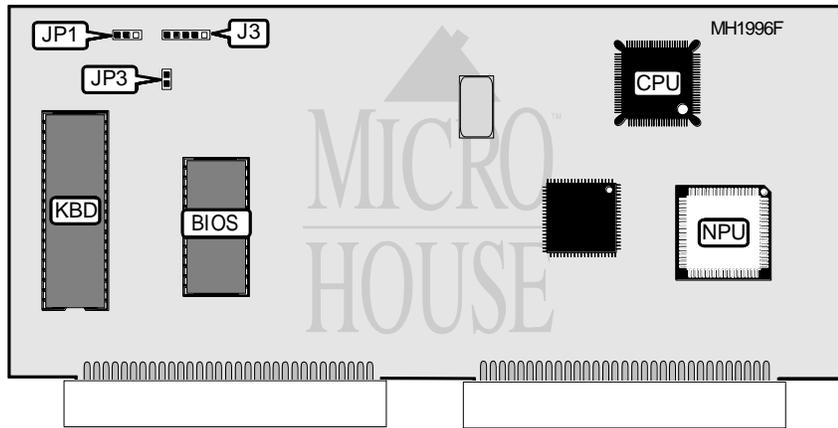| USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
^{i} Factory configured - do not alter	JP1	N/A
^{i} Factory configured - do not alter	JP4	N/A
^{i} Factory configured - do not alter	JP5	N/A
^{i} Factory configured - do not alter	JP7	N/A
Note: Jumpers located on this card are BIOS controlled and should not be altered.		

CACHE CONFIGURATION		
Size	Bank 0	TAG
64KB	(8) 8K x 8	(1) 8K x 8
256KB	(8) 32K x 8	(1) 32K x 8

DIGITAL SCIENTIFIC RESEARCH
IA386S-P/XX (EXTERNAL CPU CARD)

Processor	80386SX
Processor Speed	25/33MHz
Chip Set	ACC
Max. Onboard DRAM	32MB
Cache	64/256KB
BIOS	AMI
NPU Options	80387SX

CONNECTIONS	
Purpose	Location
PS/2 mouse connector	J3

USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
[i] Monitor type select monochrome	JP1	pins 1 & 2 closed
Monitor type select color	JP1	pins 2 & 3 closed
[i] IRQ 12 enabled	JP3	Closed
IRQ 12 disabled	JP3	Open

DIGITAL SCIENTIFIC RESEARCH
IO386S-P/XX (EXTERNAL CPU CARD)

Processor   80386SX
Processor Speed   25/33MHz
Chip Set   OPTi
Max. Onboard DRAM   16MB
Cache   None
BIOS   AMI
NPU Options   80387SX
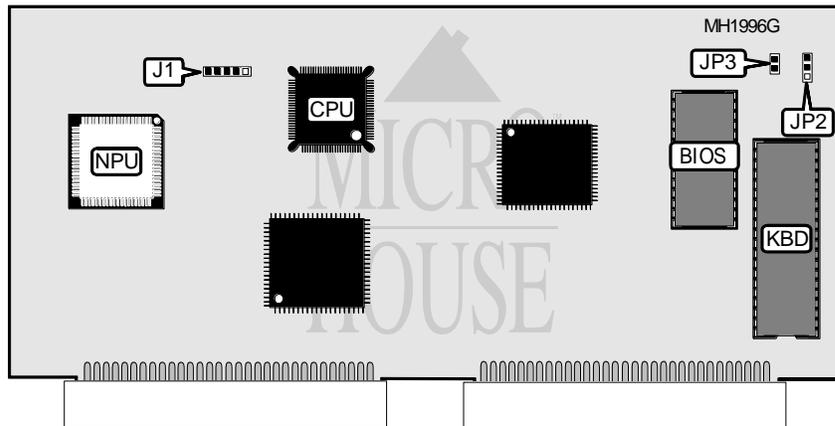
CONNECTIONS	
Purpose	Location
PS/2 mouse connector	J1

USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
[i] Monitor type select monochrome	JP2	pins 1 & 2 closed
Monitor type select color	JP2	pins 2 & 3 closed
[i] IRQ 12 enabled	JP3	Closed
IRQ 12 disabled	JP3	Open

| MISCELLANEOUS TECHNICAL NOTES |
|---|
| Note: Model IA386S-P/XX can support 32 MB of memory and uses ACC chipset. |
| Model IO386S-P/XX can support 16 MB of memory and uses either OPTI or ATMEL chipset. |

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Processor	80386DX
Processor Speed	33/40MHz
Chip Set	OPTi or ATMEL
Max. Onboard DRAM	64MB
Cache	64/256KB
BIOS	AMI/(MR BIOS is optional)
Dimensions	220mm x 220mm
NPU Options	80387/3167
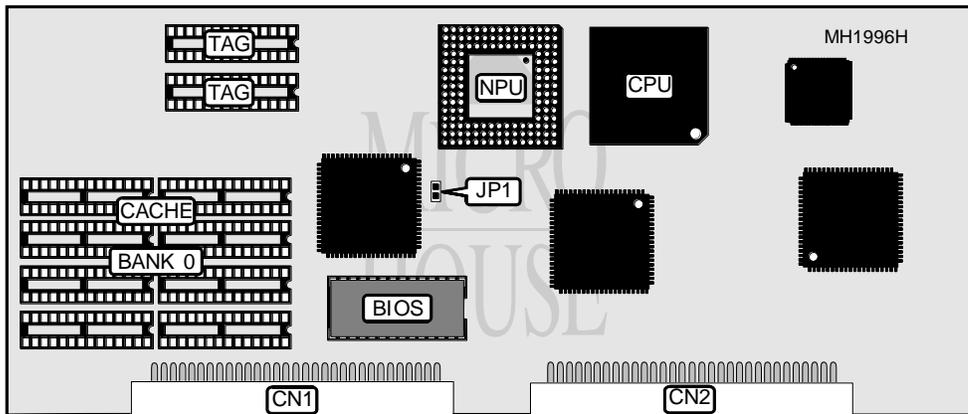
CONNECTIONS	
Purpose	Location
CPU card connectors	CN1, CN2

USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
[1] Factory configured - do not alter	JP1	N/A
Note: This jumper may not be on all CPU cards.		

CACHE CONFIGURATION		
Size	Bank 0	TAG
64KB	(8) 8K x 8	(1) 8K x 8
256KB	(8) 32K x 8	(1) 32K x 8

DIGITAL SCIENTIFIC RESEARCH, INC.
I A 4 8 6 U - C / #

Processor	80486SX/80486DX/80486DX2
Processor Speed	20/25/33/50(internal)/66(internal)MHz
Chip Set	ACC
Max. Onboard DRAM	64MB
Cache	64/256KB
BIOS	AMI
I/O Options	None
NPU Options	None

CONNECTIONS	
Purpose	Location
CPU card connectors	CN1, CN2

USER CONFIGURABLE SETTINGS		
Function	Jumper/Switch	Position
^{i} Factory configured - do not alter	J3	N/A
^{i} Factory configured - do not alter	JP12	N/A
PS/2 mouse enable	JP33	Closed
PS/2 mouse disable	JP33	Open

CPU TYPE CONFIGURATION		
Type	JP2	JP3
80486SX	pins 2 & 3 closed	Open
80486DX	pins 1 & 2, 3 & 4 closed	pins 3 & 4 closed
80486DX2	pins 1 & 2, 3 & 4 closed	pins 1 & 2 closed

CPU SPEED CONFIGURATION	
Speed	S0
25MHz	Closed
33MHz	Open
50iMHz	Closed
66iMHz	Open

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CACHE CONFIGURATION			
Size	Bank 0	Bank 1	TAG
64KB	(4) 8K x 8	(4) 8K x 8	(1) 8K x 8
256KB	(4) 32K x 8	(4) 32K x 8	(1) 32K x 8