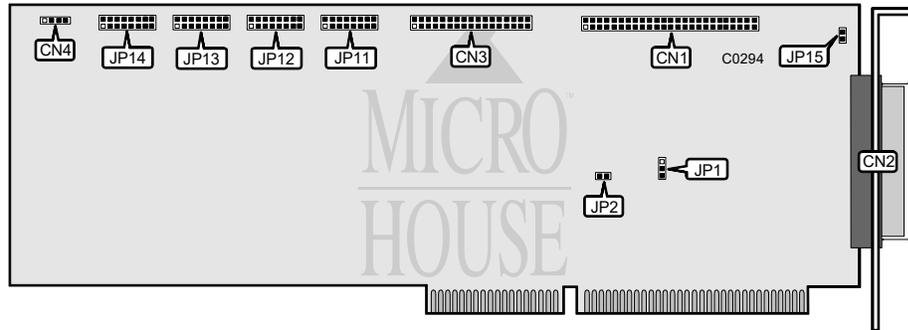


ULTRASTOR CORPORATION ULTRA14F

Q1/93

Data bus: 16-bit, ISA
 Size: Full-length, half-height card
 Hard drives supported: Up to seven SCSI devices
 Floppy drives supported: Three 360KB, 720KB, 1.2MB, or 1.44MB drives



CONNECTIONS	
Function	Location
50-pin SCSI cable connector-internal	CN1
50-pin SCSI cable connector-external	CN2
34-pin data cable connector-floppy drives	CN3
4-pin connector-drive active LED	CN4

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USER CONFIGURABLE SETTINGS		
Function	Location	Setting
í Chip at U39 is -40A or -40B	JP1	pins 2 & 3 closed
Chip at U39 is -25A	JP1	pins 1 & 2 closed
í Floppy drive enabled	JP2	closed
Floppy drive disabled	JP2	open
í BIOS supports removable hard drives	JP11/jumper 5	open
BIOS not support removable hard drives	JP11/jumper 5	closed
í Hard drive enabled	JP12/jumper 1	open
Hard drive disabled	JP12/jumper 1	closed
í Hard drive port address is 1F0-1F7, 3F6-3F7h	JP12/jumper 1	open
Hard drive port address is 170-177, 376 377h	JP12/jumper 1	closed
í BIOS supports two hard drives	JP12/jumper 2	open
BIOS supports seven hard drives	JP12/jumper 2	closed
í Spindle motor starts on power-up	JP13/jumper 1	open
Spindle motor starts on command only	JP13/jumper 1	closed
í Synchronous negotiation initiated by host adapter	JP13/jumper 2	open
Synchronous negotiation initiated by target	JP13/jumper 2	closed
í SCSI parity check enabled	JP13/jumper 3	open
SCSI parity check disabled	JP13/jumper 3	closed
í Start Synchronous negotiation at 10MB/sec	JP13/jumper 4	open
Start Synchronous negotiation at 5MB/sec	JP13/jumper 4	closed
Reserved, must be left "open"	JP13/jumper 5	open
í Third floppy supported with double-twisted cable	JP13/jumper 6	open
Third floppy supported with single-twisted cable	JP13/jumper 6	closed
í Floppy drive port address is 3F0-3F7h	JP13/jumper 7	open
Floppy drive port address is 370-377h	JP13/jumper 7	closed
í Command recovery time is 150 nsec	JP14/jumper 3*	open
Command recovery time is 100 nsec	JP14/jumper 3*	closed
Note:*If AT-bus speed is > 6.7 MB/sec CMD recovery time is fixed at 100nsec.		

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DMA CHANNEL		
Channel	JP11/jumper 1	JP11/jumper 2
í 5	open	open
6	open	closed
7	closed	open
Reserved	closed	closed

INTERRUPT REQUEST		
IRQ	JP11/jumper 3	JP11/jumper 4
í 14	open	closed
15	open	open
11	closed	open
10	closed	closed

BIOS ADDRESS			
Address	JP11/jumper 6	JP11/jumper 7	JP11/jumper 8
í C8000h	open	closed	open
Disabled	open	open	open
C4000h	open	open	closed
CC000h	open	closed	closed
D0000h	closed	open	open
D4000h	closed	open	closed
D8000h	closed	closed	open
DC000h	closed	closed	closed

HEAD MAPPING MODE		
Mode	JP12/jumper 4	JP12/jumper 5
í 64 heads / 32 SPT	open	closed
16 heads / 63 SPT	open	open
64 heads / 63 SPT	closed	open
64 heads / 32 SPT	closed	closed

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SCSI ADDRESS			
Address	JP12/jumper 6	JP12/jumper 7	JP12/jumper 8
0	open	open	open
1	open	open	closed
2	open	closed	open
3	open	closed	closed
4	closed	open	open
5	closed	open	closed
6	closed	closed	open
7	closed	closed	closed

DMA SPEED SELECT		
Speed	JP14/jumper 1	JP14/jumper 2
5MB/sec	open	open
6.7MB/sec	open	closed
8MB/sec	closed	open
10MB/sec	closed	closed

BUS-ON CLOCK SPEED			
Speed	JP13/jumper 8	JP14/jumper 4	JP14/jumper 5
11 μ sec	open	open	open
9 μ sec	open	open	closed
13 μ sec	open	closed	open
15 μ sec	open	closed	closed
2 μ sec	closed	open	open
4 μ sec	closed	open	closed
6 μ sec	closed	closed	open
7 μ sec	closed	closed	closed

I/O PORT ADDRESS			
Address	JP14/jumper 6	JP14/jumper 7	JP14/jumper 8
330h	open	open	open
340h	open	open	closed
310h	open	closed	open
230h	open	closed	closed
240h	closed	open	open
210h	closed	open	closed
130h	closed	closed	open
140h	closed	closed	closed