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ULTRA-100 PLUS

Q1/94

Data bus:	16-bit, ISA
Size:	Three/quarter-length, full-height card
Hard drive supported:	Two IDE (AT) Interface drives
Hard drive supported:	Up to seven SCSI devices
Floppy drives supported:	Two 360KB, 720KB, 1.2MB, 1.44MB, or 2.88MB drives
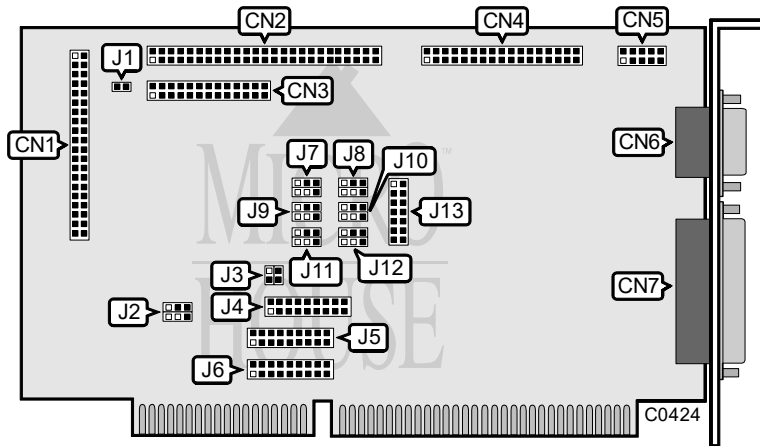
CONNECTIONS	
Function	Location
40-pin IDE(AT) Interface connector	CN1
50-pin SCSI connector - internal	CN2
25-pin SCSI connector - internal	CN3
34-pin control cable connector - floppy drive	CN4
10-pin serial port 2 (COM1/2/4) - internal	CN5
10-pin serial port 1 (COM1/2/3) - external	CN6
25-pin parallel port (LPT1/2/3) - external	CN7
2-pin connector - Drive active LED	J1

I/O PORT ADDRESS - J2		
Address	J2/jumper 1	J2/jumper 2
ì 280-28Fh	pins 2 & 3 closed	pins 2 & 3 closed
290-29Fh	pins 2 & 3 closed	pins 1 & 2 closed
2A0-2AFh	pins 1 & 2 closed	pins 2 & 3 closed
Disabled	pins 1 & 2 closed	pins 1 & 2 closed

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ULTRA-100 PLUS

PARALLEL PORT (CN7) INTERRUPT REQUEST - J3		
IRQ	J3/jumper 1	J3/jumper 2
5	closed	open
í 7	open	closed

SCSI INTERRUPT REQUEST - J4, Jumpers 1 - 9									
IRQ	J4/1	J4/2	J4/3	J4/4	J4/5	J4/6	J4/7	J4/8	J4/9
2	closed	open	open	open	open	open	open	open	open
3	open	closed	open	open	open	open	open	open	open
4	open	open	closed	open	open	open	open	open	open
í 5	open	open	open	closed	open	open	open	open	open
7	open	open	open	open	closed	open	open	open	open
10	open	open	open	open	open	closed	open	open	open
11	open	open	open	open	open	open	closed	open	open
12	open	open	open	open	open	open	open	closed	open
15	open	open	open	open	open	open	open	open	closed

SERIAL PORT 1 (CN6) INTERRUPT REQUEST - J5, Jumpers 1 9									
IRQ	J5/1	J5/2	J5/3	J5/4	J5/5	J5/6	J5/7	J5/8	J5/9
2	closed	open	open	open	open	open	open	open	open
3	open	closed	open	open	open	open	open	open	open
í 4	open	open	closed	open	open	open	open	open	open
5	open	open	open	closed	open	open	open	open	open
7	open	open	open	open	closed	open	open	open	open
10	open	open	open	open	open	closed	open	open	open
11	open	open	open	open	open	open	closed	open	open
12	open	open	open	open	open	open	open	closed	open
15	open	open	open	open	open	open	open	open	closed

SERIAL PORT 2 (CN5) INTERRUPT REQUEST - J6, Jumpers 1 9									
IRQ	J6/1	J6/2	J6/3	J6/4	J6/5	J6/6	J6/7	J6/8	J6/9
2	closed	open	open	open	open	open	open	open	open
í 3	open	closed	open	open	open	open	open	open	open
4	open	open	closed	open	open	open	open	open	open
5	open	open	open	closed	open	open	open	open	open
7	open	open	open	open	closed	open	open	open	open
10	open	open	open	open	open	closed	open	open	open
11	open	open	open	open	open	open	closed	open	open
12	open	open	open	open	open	open	open	closed	open
15	open	open	open	open	open	open	open	open	closed

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PARALLEL PORT (CN7) CONFIGURATION - J7		
LPT	J7/jumper 1	J7/jumper 2
278h	pins 1 & 2 closed	pins 1 & 2 closed
í 378h	pins 2 & 3 closed	pins 1 & 2 closed
3BCh	pins 1 & 2 closed	pins 2 & 3 closed
Disabled	pins 2 & 3 closed	pins 2 & 3 closed

SERIAL PORT 2 (CN5) CONFIGURATION - J8		
COM	J8/jumper 1	J8/jumper 2
COM1	pins 1 & 2 closed	pins 2 & 3 closed
í COM2	pins 1 & 2 closed	pins 1 & 2 closed
COM4	pins 2 & 3 closed	pins 1 & 2 closed
Disabled	pins 2 & 3 closed	pins 2 & 3 closed

USER CONFIGURABLE SETTINGS		
Function	Location	Setting
í Floppy drive enabled	J9/jumper 2	pins 1 & 2 closed
Floppy drive disabled	J9/jumper 2	pins 2 & 3 closed
í Hard drive enabled	J9/jumper 1	pins 1 & 2 closed
Hard drive disabled	J9/jumper 1	pins 2 & 3 closed
í Floppy drive port address is 3F0-3F7h	J12/jumper 1	pins 2 & 3 closed
Floppy drive port address is 370-377h	J12/jumper 1	pins 1 & 2 closed
í Hard drive port address is 3F6, 3F7, 1F0-1F7h	J12/jumper 2	pins 2 & 3 closed
Hard drive port address is 376, 377, 170-177h	J12/jumper 2	pins 1 & 2 closed

SERIAL PORT 1 (CN6) CONFIGURATION - J10		
COM	J10/jumper 1	J10/jumper 2
í COM1	pins 1 & 2 closed	pins 1 & 2 closed
COM2	pins 1 & 2 closed	pins 2 & 3 closed
COM3	pins 2 & 3 closed	pins 1 & 2 closed
Disabled	pins 2 & 3 closed	pins 2 & 3 closed

PARALLEL PORT (CN7) CONFIGURATION - J11		
Function	J11/jumper 1	J11/jumper 2
í Uni-directional parallel port enabled	2 & 3	2 & 3
Enhanced Parallel Port (EPP) or bi-directional LPT port enabled	2 & 3	1 & 2
Extended Capacity Port (ECP) or bi-directional LPT port enabled	1 & 2	2 & 3
ECP, EPP, or bi-directional LPT port enabled	1 & 2	1 & 2
Note: pins designated should be in a closed position.		

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EXPANDED CAPACITY PORT DMA CONFIGURATION - J13		
Function	Location	Setting
	1 8 2 9 3 10 4 11 5 12 6 13 7 14	
í ECP port DMA Acknowledge Is DACK1 ECP port DMA Request is DREQ1	J13/pins 1 & 8, 5 & 6, 7 & 14, 12 & 13	closed
ECP port DMA Acknowledge is DACK3 ECP port DMA Request is DREQ3	J13/pins 1 & 8, 4 & 5, 7 & 14, 11 & 12	closed
Note: J13 must be configured in one of these two options at all times.		