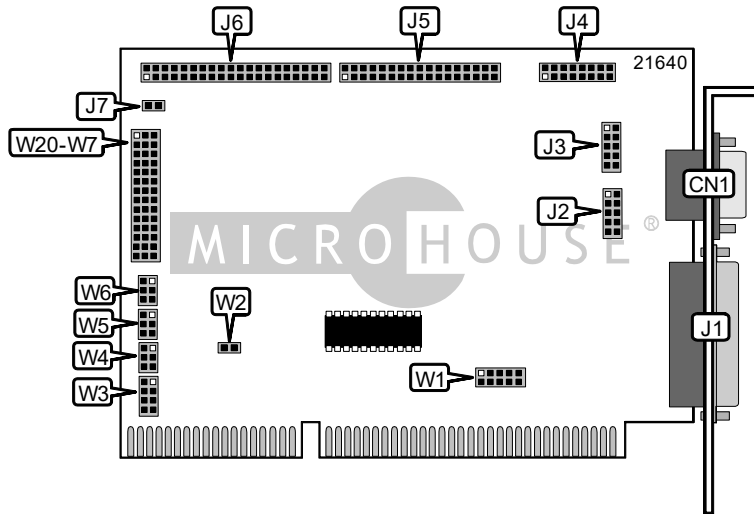# DATA TECHNOLOGY CORPORATION
DTC ULTIMA PRO (400576-89A)

Card Type	Hard drive controller card
Hard Drives supported	Two IDE (AT) drives
Floppy drives supported	Two 360KB, 720KB, 1.2MB, or 1.44MB drives
Data Bus	16-bit ISA
Card Size	Half-length, full-height card

CONNECTIONS			
Function	Location	Function	Location
9-pin serial port 1 - external	CN1	16-pin game port	J4
25-pin parallel port - external	J1	34-pin cable connector - floppy drive	J5
10-pin serial port 1 - internal	J2	40-pin primary IDE(AT) connector	J6
10-pin serial port 2 - internal	J3	2-pin connector - drive active LED	J7

USER CONFIGURABLE SETTINGS		
Function	Label	Position
í BIOS setup enabled	W2	Closed
BIOS setup disabled	W2	Open
í Game port enabled	W7	Pins 1 & 2 closed
Game port disabled	W7	Pins 2 & 3 closed
í Serial port 2 enabled	W12	Pins 1 & 2 closed
Serial port 2 disabled	W12	Pins 2 & 3 closed
í Floppy drive interface enabled	W15	Pins 1 & 2 closed
Floppy drive interface disabled	W15	Pins 2 & 3 closed
í IDE interface enabled	W16	Pins 1 & 2 closed
IDE interface disabled	W16	Pins 2 & 3 closed
í Serial port 1 enabled	W17	Pins 1 & 2 closed
Serial port 1 disabled	W17	Pins 2 & 3 closed
í IDE primary address is 1F0h	W20	Pins 1 & 2 closed
IDE secondary address is 170h	W20	Pins 2 & 3 closed

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ECP DMA CHANNEL SELECTION		
Channel	Label	Position
1	W1	Pins 5 & 6, 7 & 8 closed
3	W1	Pins 1 & 2, 3 & 4 closed

PARALLEL PORT MODE SELECTION		
Setting	W11	W18
Disabled	Pins 2 & 3 closed	Pins 2 & 3 closed
EPP	Pins 2 & 3 closed	Pins 1 & 2 closed
Bi-directional/ ECP	Pins 1 & 2 closed	Pins 2 & 3 closed
Uni-directional	Pins 1 & 2 closed	Pins 1 & 2 closed

PARALLEL PORT ADDRESS SELECTION		
Setting	Label	Position
í LPT1 (378h)	W13	Pins 1 & 2 closed
LPT2 (278h)	W13	Pins 2 & 3 closed

SERIAL PORT 1 ADDRESS SELECTION		
Setting	Label	Position
í COM1 (3F8h)	W19	Pins 1 & 2 closed
COM3 (3E8h)	W19	Pins 2 & 3 closed

SERIAL PORT 2 ADDRESS SELECTION		
Setting	Label	Position
í COM2 (2F8h)	W14	Pins 1 & 2 closed
COM4 (2E8h)	W14	Pins 2 & 3 closed

BIOS ADDRESS SELECTION		
Address	Location	Position
í C800h	W3	Pins 1 & 3, 2 & 4 closed
CC00	W3	Pins 3 & 5, 2 & 4 closed
D800	W3	Pins 1 & 3, 4 & 6 closed
DC00	W3	Pins 3 & 5, 4 & 6 closed

SERIAL PORT 1 INTERRUPT SELECTION		
IRQ	Label	Position
í IRQ4	W10	Pins 2 & 3 closed
IRQ5	W10	Pins 1 & 2 closed
Alternate	W10	Open

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SERIAL PORT 2 INTERRUPT SELECTION		
IRQ	Label	Position
í IRQ3	W8	Pins 2 & 3 closed
IRQ5	W8	Pins 1 & 2 closed
Alternate	W8	Open

SERIAL PORT 1 ALTERNATE INTERRUPT SELECTION		
IRQ	Label	Position
IRQ9	W5	Pins 1 & 3 closed
IRQ10	W5	Pins 3 & 5 closed
IRQ11	W5	Pins 2 & 4 closed
IRQ12	W5	Pins 4 & 6 closed
Note: W10 must be open to use alternate IRQs		

SERIAL PORT 2 ALTERNATE INTERRUPT SELECTION		
IRQ	Label	Position
IRQ9	W4	Pins 1 & 3 closed
IRQ10	W4	Pins 3 & 5 closed
IRQ11	W4	Pins 2 & 4 closed
IRQ12	W4	Pins 4 & 6 closed
Note: W10 must be open to use alternate IRQs		

PARALLEL PORT INTERRUPT SELECTION		
IRQ	Label	Position
í IRQ7	W9	Pins 2 & 3 closed
IRQ5	W9	Pins 1 & 2 closed

IDE INTERRUPT SELECTION		
IRQ	Label	Position
11	W6	Pins 4 & 6 closed
12	W6	Pins 2 & 4 closed
14	W6	Pins 3 & 5 closed
15	W6	Pins 1 & 3 closed