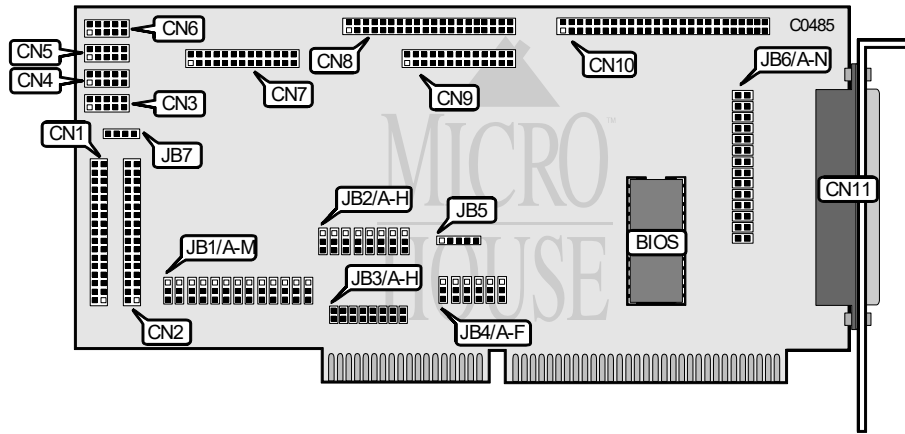# CONTROL CONCEPTS, INC.
16-BIT SCSI, IDE, FLOPPY, SERIAL & PARALLEL
COMBINATION BOARD (VERSION 2)

Q2/94

Data bus: 16-bit, ISA
Size: Three-quarter-length, full-height card
Hard drive supported: IDE (AT) Interface drive, SCSI drives (2)
Floppy drives supported: Two 360KB, 720KB, 1.2MB, 1.44MB, or 2.88 drives

CONNECTIONS	
Function	Location
Floppy drive interface 1	CN1
Floppy drive interface 2	CN2
Serial port 4	CN3
Serial port 3	CN4
Serial port 2	CN5
Serial port 1	CN6
Parallel port 1	CN7
IDE interface	CN8
Parallel port 2	CN9
SCSI interface	CN10
SCSI interface 2	CN11

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USER CONFIGURABLE SETTINGS		
Function	Location	Setting
í 2.88MB Floppy drive mode disabled	JB1/A	Open
2.88MB Floppy drive mode enabled (w/pin 33 as 2nd enable line)	JB1/A	Pins 2 & 3
2.88MB Floppy drive mode enabled (standard enabling)	JB1/A	Pins 1 & 2
í Factory configured - do not alter	JB3/A	N/A
í Factory configured - do not alter	JB3/B	N/A
í Factory configured - do not alter	JB3/C	N/A
í Factory configured - do not alter	JB3/D	N/A
í No termination power to external SCSI interface	JB6/A	Open
5V termination power to external SCSI interface	JB6/A	Closed
í Factory configured - do not alter	JB6/D	N/A
í I/O Address 330h - 33Fh	JB6/E	Open
I/O Address 230h - 23Fh	JB6/E	Closed
í SCSI protocol asynchronous	JB6/F	Open
SCSI protocol synchronous	JB6/F	Closed
í SCSI device ID 7	JB6/G	Open
SCSI device ID 6	JB6/G	Closed
í SCSI parity enabled	JB6/H	Open
SCSI parity disabled	JB6/H	Closed
í Factory configured - do not alter	JB6/K	N/A
í ROM enabled	JB6/L	Closed
ROM disabled	JB6/L	Open
í Factory configured - do not alter	JB6/M	N/A
í Zero wait state disabled	JB6/N	Open
Zero wait state enabled	JB6/N	Closed
í Factory configured - do not alter	JB/7	N/A

IDE CONFIGURATION		
Setting	JB1/B	JB1/C
í IDE interface enabled (address 1F0h - 1F7h)	Pins 2 & 3 closed	Pins 1 & 2 closed
IDE interface enabled (address 170h - 177h)	Pins 1 & 2 closed	Pins 1 & 2 closed
IDE interface disabled	Pins 2 & 3 closed	Pins 2 & 3 closed
Reserved for future use	Pins 1 & 2 closed	Pins 1 & 2 closed

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FLOPPY DRIVE CONFIGURATION		
Setting	JB1/D	JB1/E
í Floppy drive interface enabled (address 3F0h - 3F7h)	Pins 2 & 3 closed	Pins 1 & 2 closed
Floppy drive interface enabled (address 370h - 377h)	Pins 1 & 2 closed	Pins 1 & 2 closed
Floppy drive interface disabled	Pins 2 & 3 closed	Pins 2 & 3 closed
Reserved for future use	Pins 1 & 2 closed	Pins 2 & 3 closed

PRIMARY PARALLEL PORT CONFIGURATION		
Setting	JB1/F	JB1/G
í Unidirectional mode enabled	Pins 2 & 3 closed	Pins 2 & 3 closed
Bi-directional mode enabled	Pins 1 & 2 closed	Pins 2 & 3 closed
Reserved for future use	Pins 2 & 3 closed	Pins 1 & 2 closed
Reserved for future use	Pins 1 & 2 closed	Pins 1 & 2 closed

PRIMARY PARALLEL PORT ADDRESS SELECT		
LPT	JB1/H	JB1/I
í 1	Pins 2 & 3 closed	Pins 1 & 2 closed
2	Pins 1 & 2 closed	Pins 1 & 2 closed
3	Pins 1 & 2 closed	Pins 2 & 3 closed
Disabled	Pins 2 & 3 closed	Pins 2 & 3 closed

PRIMARY PARALLEL PORT INTERRUPT SELECT	
IRQ	JB4/E
í IRQ7	Pins 1 & 2 closed
IRQ5	Pins 2 & 3 closed

SECOND PARALLEL PORT CONFIGURATION		
Setting	JB2/A	JB2/B
í Unidirectional mode enabled	Pins 2 & 3 closed	Pins 2 & 3 closed
Bi-directional mode enabled	Pins 1 & 2 closed	Pins 2 & 3 closed
Reserved for future use	Pins 2 & 3 closed	Pins 1 & 2 closed
Reserved for future use	Pins 1 & 2 closed	Pins 1 & 2 closed

SECOND PARALLEL PORT ADDRESS SELECT		
LPT	JB2/C	JB2/D
í LPT2	Pins 1 & 2 closed	Pins 1 & 2 closed
LPT1	Pins 2 & 3 closed	Pins 1 & 2 closed
LPT3	Pins 1 & 2 closed	Pins 2 & 3 closed
Disabled	Pins 2 & 3 closed	Pins 2 & 3 closed

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SECOND PARALLEL PORT INTERRUPT SELECT	
IRQ	JB4/F
í IRQ5	Pins 2 & 3 closed
IRQ7	Pins 1 & 2 closed

PRIMARY SERIAL PORT ADDRESS SELECT		
Port 1 (CN6)	JB1/L	JB1/M
í COM1	Pins 1 & 2 closed	Pins 1 & 2 closed
COM2	Pins 2 & 3 closed	Pins 1 & 2 closed
COM3	Pins 1 & 2 closed	Pins 2 & 3 closed
Disabled	Pins 2 & 3 closed	Pins 2 & 3 closed

PRIMARY SERIAL PORT INTERRUPT SELECT	
IRQ	JB4/A
í IRQ4	Pins 1 & 2 closed
IRQ3	Pins 2 & 3 closed

SECOND SERIAL PORT ADDRESS SELECT		
Port 2 (CN5)	JB1/J	JB1/K
í COM2	Pins 1 & 2 closed	Pins 1 & 2 closed
COM1	Pins 2 & 3 closed	Pins 1 & 2 closed
COM4	Pins 1 & 2 closed	Pins 2 & 3 closed
Disabled	Pins 2 & 3 closed	Pins 2 & 3 closed

SECOND SERIAL PORT INTERRUPT SELECT	
IRQ	JB4/B
í IRQ3	Pins 2 & 3 closed
IRQ4	Pins 1 & 2 closed

THIRD SERIAL PORT ADDRESS SELECT		
Port 3 (CN4)	JB2/G	JB2/H
í COM3	Pins 1 & 2 closed	Pins 2 & 3 closed
COM1	Pins 1 & 2 closed	Pins 1 & 2 closed
COM2	Pins 2 & 3 closed	Pins 1 & 2 closed
Disabled	Pins 2 & 3 closed	Pins 2 & 3 closed

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THIRD SERIAL PORT INTERRUPT SELECT	
IRQ	JB4/C
í IRQ4	Pins 1 & 2 closed
IRQ3	Pins 2 & 3 closed

FOURTH SERIAL PORT ADDRESS SELECT		
Port 4 (CN3)	JB2/E	JB2/F
í COM4	Pins 1 & 2 closed	Pins 2 & 3 closed
COM1	Pins 2 & 3 closed	Pins 1 & 2 closed
COM2	Pins 1 & 2 closed	Pins 1 & 2 closed
Disabled	Pins 2 & 3 closed	Pins 2 & 3 closed

FOURTH SERIAL PORT INTERRUPT SELECT	
IRQ	JB4/D
í IRQ3	Pins 2 & 3 closed
IRQ4	Pins 1 & 2 closed

INTERRUPT SELECT						
IRQ	JB6/I	JB6/J	JB3/E	JB3/F	JB3/G	JB3/H
IRQ11	Open	Open	Open	Open	Closed	Open
IRQ10	Closed	Open	Open	Open	Open	Closed
IRQ12	Closed	Closed	Open	Closed	Open	Open
IRQ15	Open	Closed	Closed	Open	Open	Open

BASE MEMORY ADDRESS SELECT		
Address	JB6/B	JB6/C
í C8000h	Open	Open
CC000h	Open	Closed
D8000h	Closed	Open
DC000h	Closed	Closed

LED SOURCE CONFIGURATION	
Setting	JB5
í LED functions with IDE activity	Pins 2 & 3 closed
LED functions with SCSI activity	Pins 1 & 2 closed
LED funtions with both IDE and SCSI activity	Pins 4 & 5 closed