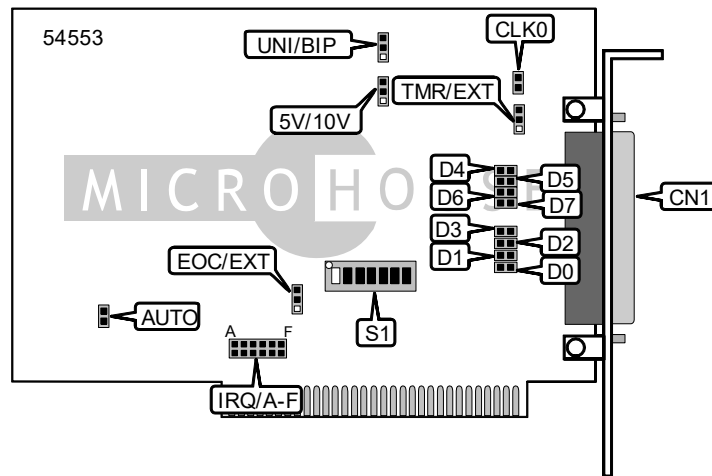


INDUSTRIAL COMPUTER SOURCE

AD12-8

Card Type
I/O Options
Data Bus

Analog to digital converter
parallel port
8-bit ISA



CONNECTIONS	
Function	Label
DB-37 connector	CN1

USER CONFIGURABLE SETTINGS		
Function	Label	Position
Sets Counter#1 output as Counter#2 clock input	CLK0	closed
Uses Counter#2 output to start preprogrammed A/D conversions	TMR/EXT	Pins 1 & 2 closed

ANALOG INPUT RANGES		
Range	10V/5V Jumper	UNIP/BIP Jumper
+/- 5V	Pins 1 & 2 closed	Pins 2 & 3 closed
+/- 10V	Pins 2 & 3 closed	Pins 2 & 3 closed
+ 10V	Pins 1 & 2 closed	Pins 1 & 2 closed

INTERRUPT SOURCE SELECTION		
Function	Label	Position
Selects interrupts caused by the end-of-conversion signal	EXT/EOC	Pins 1 & 2 closed
Selects external interrupts	EXT/EOC	Pins 2 & 3 closed

Note: The end-of-conversion interrupt is to be used only when the counter/timer or an external event are used to start A/D conversions. Use of the AUTO jumper or Software Start with the interrupts will degrade card speed.

IRQ SELECTION						
Interrupt	A	B	C	D	E	F
IRQ2	Closed	Open	Open	Open	Open	Open
IRQ3	Open	Closed	Open	Open	Open	Open
IRQ4	Open	Open	Closed	Open	Open	Open
IRQ5	Open	Open	Open	Closed	Open	Open
IRQ6	Open	Open	Open	Open	Closed	Open
IRQ7	Open	Open	Open	Open	Open	Closed

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AD12-8

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DIGITAL I/O CONFIGURATION								
DIO	D0	D1	D2	D3	D4	D5	D6	D7
DIO0	Closed	Open	Open	Open	Open	Open	Open	Open
DIO1	Open	Closed	Open	Open	Open	Open	Open	Open
DIO2	Open	Open	Closed	Open	Open	Open	Open	Open
DIO3	Open	Open	Open	Closed	Open	Open	Open	Open
DIO4	Open	Open	Open	Open	Closed	Open	Open	Open
DIO5	Open	Open	Open	Open	Open	Closed	Open	Open
DIO6	Open	Open	Open	Open	Open	Open	Closed	Open
DIO7	Open	Open	Open	Open	Open	Open	Open	Closed

BASE I/O ADDRESS SELECTION							
Setting	S1/7	S1/6	S1/5	S1/4	S1/3	S1/2	S1/1
000h	On	On	On	On	On	On	On
018h	On	On	On	On	On	Off	Off
038h	On	On	On	On	Off	Off	Off
078h	On	On	On	Off	Off	Off	Off
200h	Off	On	On	On	On	On	On
300h	Off	Off	On	On	On	On	On
380h	Off	Off	Off	On	On	On	On
3C0h	Off	Off	Off	Off	On	On	On
3E0h	Off	Off	Off	Off	Off	On	On
3F0h	Off	Off	Off	Off	Off	Off	On
3F8h	Off	Off	Off	Off	Off	Off	Off

Note: A total of 128 base address settings are available. The switches are a binary representation of the decimal memory addresses. S1/7 is the Most Significant Bit and switch S1/1 is the Least Significant Bit. The switches have the following decimal values: S1/7=512, S1/6=256, S1/5=128, S1/4=64, S1/3=32, S1/2=16, S1/1=8. Turn off the switches and add the values of the switches to obtain the correct memory address. (Off=1, On=0)