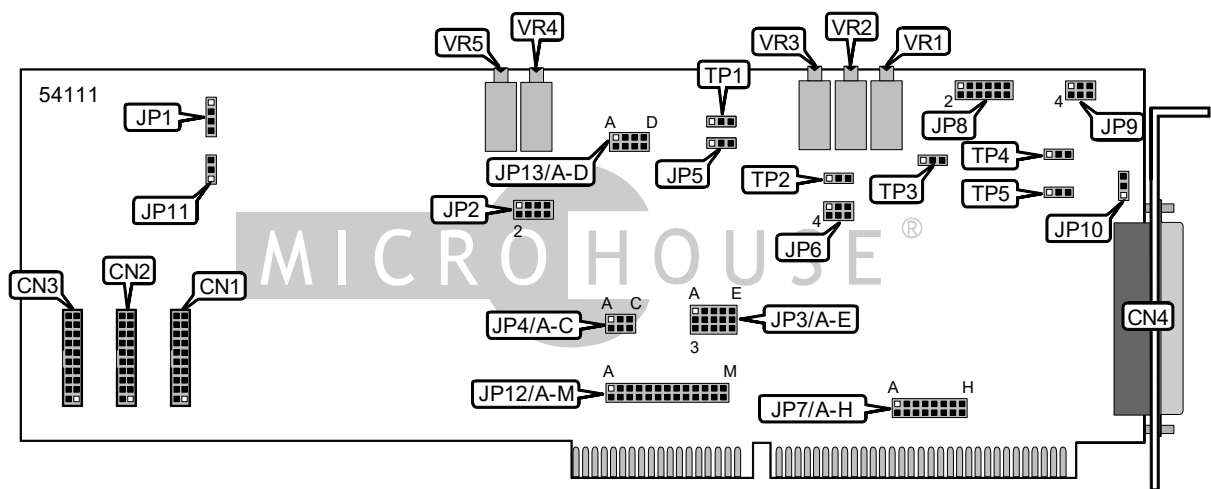


ACQUTEK CORPORATION
PA-MA12(-H)

Card Type	Data Acquisition
Chip Set	Unidentified
Maximum Onboard Memory	Unidentified
I/O Options	Analog input, digital input, digital I/O connectors (3)
Data Bus	16-bit ISA
Card Size	Full-length



CONNECTIONS			
Function	Label	Function	Label
XDI expansion board connector	CN1	A/D converter CMRR selector	VR1
XDI expansion board connector	CN2	A/D converter offset selector	VR2
XDI expansion board connector	CN3	A/D converter range selector	VR3
37-pin analog/digital signals connector	CN4	D/A converter range selector	VR4
Timer signal input (8254)	JP1	D/A converter offset selector	VR5
External clock input	JP10		

USER CONFIGURABLE SETTINGS		
Function	Label	Position
Differential A/D input	JP9	Pins 1 & 2, 4 & 5 closed
Single ended A/D input	JP9	Pins 2 & 3, 5 & 6 closed

TESTING JUMPER SETTINGS		
Function	Label	Position
í Factory configured - do not alter	JP2	Pins 1 & 2, 3 & 4 closed
í Factory configured - do not alter	JP11	Pins 1 & 2 closed
í Factory configured - do not alter	TP1	Pins 1 & 2 closed
í Factory configured - do not alter	TP2	Pins 1 & 2 closed
í Factory configured - do not alter	TP3	Pins 1 & 2 closed
í Factory configured - do not alter	TP4	Pins 1 & 2 closed
í Factory configured - do not alter	TP5	Pins 1 & 2 closed

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DATA TRANSFER SELECTION			
Data length	JP4/A	JP4/B	JP4/C
í Automatic Word/Byte data transfer enabled	Open	Closed	Open
Byte data transfer for A/D data (8 bits)	Closed	Open	Open
Word data transfer for A/D data (16 bits)	Open	Open	Closed

DMA CHANNEL SELECTION							
Channel	JP12/A	JP12/B-C	JP12/D-E	JP12/F-G	JP12/H-I	JP12/J-K	JP12/L-M
0	Open	Open	Open	Open	Open	Open	Closed
1	Open	Open	Open	Open	Open	Closed	Open
3	Open	Open	Open	Open	Closed	Open	Open
5	Closed	Open	Open	Closed	Open	Open	Open
6	Closed	Open	Closed	Open	Open	Open	Open
7	Closed	Closed	Open	Open	Open	Open	Open
Note: Channels 0,5,6, & 7 are not available for PC & PC-XT.							

D/A OUTPUT VOLTAGE RANGE SELECTION				
Voltage	JP13/A	JP13/B	JP13/C	JP13/D
í 0V to 5V	Open	Closed	Open	Open
0V to 10V	Open	Open	Closed	Open
-5V to 5V	Open	Closed	Open	Closed
-10V to 10V	Open	Open	Closed	Closed

A/D INPUT VOLTAGE RANGE SELECTION		
Function	Label	Position
í 5V A/D input	JP5	Pins 2 & 3 closed
10V A/D input	JP5	Pins 1 & 2 closed
í Bipolar A/D input	JP6	Pins 1 & 2, 4 & 5 closed
Unipolar A/D input	JP6	Pins 2 & 3, 5 & 6 closed

A/D INPUT GAIN SELECTION	
Gain	JP8
Not installed	Open
í 1	Pins 9 & 11 closed
2	Pins 11 & 12 closed
5	Pins 9 & 10 closed
10	Pins 7 & 8 closed
20	Pins 5 & 6 closed
50	Pins 3 & 4 closed
User defined	Pins 1 & 2 closed

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BASE I/O ADDRESS SELECTION								
Setting	JP7/A	JP7/B	JP7/C	JP7/D	JP7/E	JP7/F	JP7/G	JP7/H
000h	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed
010h	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Open
020h	Closed	Closed	Closed	Closed	Closed	Closed	Open	Closed
030h	Closed	Closed	Closed	Closed	Closed	Closed	Open	Open
040h	Closed	Closed	Closed	Closed	Closed	Open	Closed	Closed
050h	Closed	Closed	Open	Closed	Open	Open	Open	Closed
060h	Open	Open	Open	Open	Open	Closed	Open	Open
070h	Open	Open	Open	Open	Open	Open	Closed	Closed
080h	Open	Open	Open	Open	Open	Open	Closed	Open
090h	Open	Open	Open	Open	Open	Open	Open	Closed
0A0h	Open	Open	Open	Open	Open	Open	Open	Open

Note: A total of 256 base address settings are available. The jumpers are a binary representation of the decimal memory addresses. JP7/A is the Most Significant Bit and switch JP7/H is the Least Significant Bit. The switches have the following decimal values: JP7/A=2048, JP7/B=1024, JP7/C=512, JP7/D=256, JP7/E=128, JP7/F=64, JP7/G=32, JP7/H=16. Turn off the switches and add the values of the switches to obtain the correct memory address. (Open=1, Closed=0)

IRQ INTERRUPT SELECTION					
IRQ	JP3/A	JP3/B	JP3/C	JP3/D	JP3/E
IRQ2	Open	Open	Open	Open	Pins 1 & 2
IRQ3	Open	Open	Open	Pins 1 & 2	Open
IRQ4	Open	Open	Pins 1 & 2	Open	Open
IRQ5	Open	Pins 1 & 2	Open	Open	Open
IRQ7	Pins 1 & 2	Open	Open	Open	Open
IRQ10	Open	Open	Open	Open	Pins 2 & 3
IRQ11	Open	Open	Open	Pins 2 & 3	Open
IRQ12	Open	Open	Pins 2 & 3	Open	Open
IRQ14	Open	Pins 2 & 3	Open	Open	Open
IRQ15	Pins 2 & 3	Open	Open	Open	Open
Disabled	Open	Open	Open	Open	Open

Note: Pins designated are in the closed position. IRQ10, IRQ11, IRQ12, IRQ14 & IRQ15 are for AT compatible buses; PC buses will not support them.