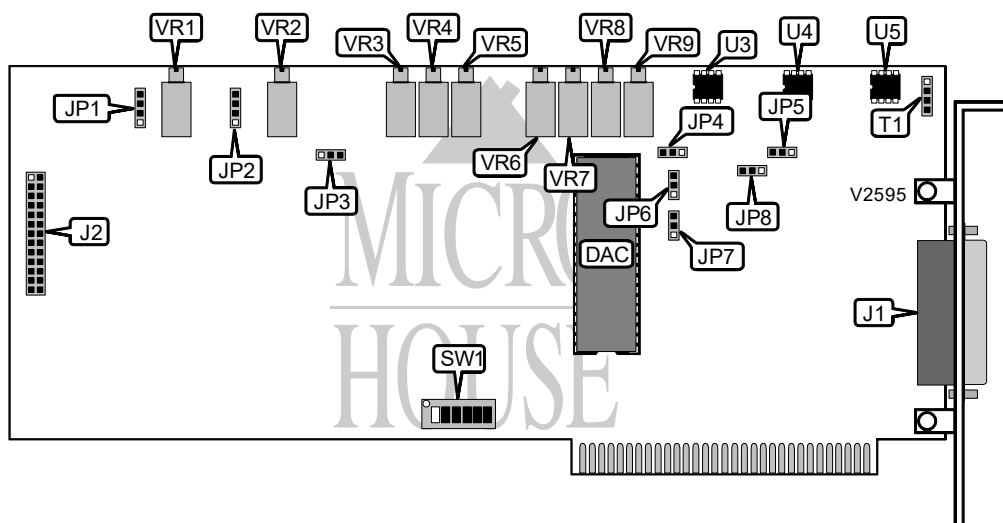


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ADVANCE A/D-D/A DIGITAL I/O CARD

Card Type
Chipset
I/O Options
Data Bus

Data acquisition
 Signal Processing Technologies HADC674Z
 Analog/digital I/O
 8-bit ISA



CONNECTIONS			
Function	Label	Function	Label
Analog/digital I/O (see pinout below)	J1	Analog-to-digital negative bipolar offset voltage	VR3
Analog/digital I/O (see pinout below)	J2	Analog-to-digital positive bipolar offset voltage	VR4
Unidentified	T1	Analog-to-digital unipolar offset voltage	VR5
Unidentified	U3	Buffer gain voltage	VR6
Unidentified	U4	U3 offset voltage	VR7
Unidentified	U5	U4 offset voltage	VR8
Digital-to-analog channel 1 voltage	VR1	U5 offset voltage	VR9
Digital-to-analog channel 2 voltage	VR2		

J1 PINOUT (SINGLE-ENDED)			
Function	Pin	Function	Pin
+12V DC power	1	-12V DC power	14
Digital-to-analog channel 2 output	2	Digital-to-analog channel 1 output	15
Ground	3	Analog-to-digital channel 15	16
Analog-to-digital channel 14	4	Analog-to-digital channel 13	17
Analog-to-digital channel 12	5	Analog-to-digital channel 11	18
Analog-to-digital channel 10	6	Analog-to-digital channel 9	19
Analog-to-digital channel 8	7	Analog-to-digital channel 7	20
Analog-to-digital channel 6	8	Analog-to-digital channel 5	21
Analog-to-digital channel 4	9	Analog-to-digital channel 3	22
Analog-to-digital channel 2	10	Analog-to-digital channel 1	23
Analog-to-digital channel 0	11	Ground	24
Ground	12	-5V DC power	25
+5V DC power	13		

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J1 PINOUT (DIFFERENTIAL)			
Function	Pin	Function	Pin
+12V DC power	1	-12V DC power	14
Digital-to-analog channel 2 output	2	Digital-to-analog channel 1 output	15
Ground	3	Analog-to-digital negative channel 7	16
Analog-to-digital positive channel 7	4	Analog-to-digital negative channel 6	17
Analog-to-digital positive channel 6	5	Analog-to-digital negative channel 5	18
Analog-to-digital positive channel 5	6	Analog-to-digital negative channel 4	19
Analog-to-digital positive channel 4	7	Analog-to-digital negative channel 3	20
Analog-to-digital positive channel 3	8	Analog-to-digital negative channel 2	21
Analog-to-digital positive channel 2	9	Analog-to-digital negative channel 1	22
Analog-to-digital positive channel 1	10	Analog-to-digital negative channel 0	23
Analog-to-digital positive channel 0	11	Ground	24
Ground	12	-5V DC power	25
+5V DC power	13		

J2 PINOUT			
Function	Pin	Function	Pin
+12V DC power	1	Digital channel 2 bit 1	14
Ground	2	Digital channel 2 bit 2	15
+12V DC power	3	Digital channel 2 bit 3	16
Ground	4	Digital channel 2 bit 4	17
Digital channel 1 bit 0	5	Digital channel 2 bit 5	18
Digital channel 1 bit 1	6	Digital channel 2 bit 6	19
Digital channel 1 bit 2	7	Digital channel 2 bit 7	20
Digital channel 1 bit 3	8	Chip Select 1	21
Digital channel 1 bit 4	9	Chip Select 2	22
Digital channel 1 bit 5	10	+5V DC power	23
Digital channel 1 bit 6	11	Ground	24
Digital channel 1 bit 7	12	-12V DC power	25
Digital channel 2 bit 0	13	Ground	26

ANALOG-TO-DIGITAL VOLTAGE RANGE			
Setting	JP4	JP6	JP7
0V to 10V	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 2 & 3 closed
0V to 20V	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
í -10V to 10V	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
-20V to 20V	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
Set by VR3 - VR5	Pins 2 & 3 closed	N/A	N/A

DIGITAL-TO-ANALOG CHANNEL 1 VOLTAGE		
Setting	JP1	JP4
0V to 10V	Pins 3 & 4 closed	Pins 1 & 2 closed
í -10V to 10V	Pins 1 & 2 closed	Pins 1 & 2 closed
Set by VR1	N/A	Pins 2 & 3 closed

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ADVANCE A/D-D/A DIGITAL I/O CARD

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DIGITAL-TO-ANALOG CHANNEL 2 VOLTAGE		
Setting	JP2	JP4
0V to 10V	Pins 3 & 4 closed	Pins 1 & 2 closed
± -10V to 10V	Pins 1 & 2 closed	Pins 1 & 2 closed
Set by VR2	N/A	Pins 2 & 3 closed

SINGLE-ENDED/DIFFERENTIAL MODE			
Setting	JP3	JP5	JP8
Single-ended	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 2 & 3 closed
Differential	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 3 & 4 closed

BASE I/O ADDRESS						
Setting	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6
000h	On	On	On	On	On	On
010h	On	On	On	On	On	Off
020h	On	On	On	On	Off	On
030h	On	On	On	On	Off	Off
040h	On	On	On	Off	On	On
3B0h	Off	Off	Off	On	Off	Off
3C0h	Off	Off	Off	Off	On	On
3D0h	Off	Off	Off	Off	On	Off
3E0h	Off	Off	Off	Off	Off	On
3F0h	Off	Off	Off	Off	Off	Off

Note: A total of 64 base address settings are available. The switches are a binary representation of the decimal memory addresses. SW1/1 is the Most Significant Bit and switch SW1/6 is the Least Significant Bit. The switches have the following decimal values: SW1/1=512, SW1/2=256, SW1/3=128, SW1/4=64, SW1/5=32, SW1/6=16. Turn off the switches and add the values of the switches that are off to obtain the correct address. (Off=1, On=0)