PCI-1742U 16-bit, 1MS/s High-Resolution Multifunction Card

PIN Assignment

			1
AIO	68	34	AI1
AI2	67	33	AI3
AI4	66	32	AI5
AI6	65	31	AI7
AI8	64	30	AI9
AI10	63	29	AI11
AI12	62	28	AI13
AI14	61	27	AI15
AGND	60	26	AGND
AI16	59	25	AI17
AI18	58	24	AI19
AI20	57	23	AI21
AI22	56	22	AI23
AI24	55	21	AI25
AI26	54	20	AI27
AI28	53	19	AI29
AI30	52	18	AI31
AI32	51	17	AI33
AI34	50	16	AI35
AI36	49	15	AI37
AI38	48	14	AI39
AI40	47	13	AI41
AI42	46	12	AI43
AI44	45	11	AI45
AI46	44	10	AI47
AGND	43	9	AGND
AI48	42	8	AI49
AI50	41	7	AI51
AI52	40	6	AI53
AI54	39	5	AI55
AI56	38	4	AI57
AI58	37	3	AI59
AI60	36	2	AI61
AI62	35	1	AI63
			1

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Signal Name			Description
AI<015>	AIGND	Input	Analog Input Channels 0
			through 15. Each channe
			pair, Al <i, i+1=""> (i = 0, 2,</i,>
			414), can be configured
			as either two single-ender
			inputs or one differential
			input.
AIGND			Analog Input Ground. The
AIGND	-	-	three ground references
			(AIGND, AOGND, and
			DGND) are connected
			together.
AO0_REF	AOGND	Input	Analog Output Channel 0
AO1_REF			1 External Reference.
AO0_OUT	AOGND	Output	Analog Output Channels
AO1_OUT			0/1
AOGND	-	-	Analog Output Ground.
			The analog output volt-
			ages are referenced to
			these nodes. The three
			ground references
			(AIGND, AOGND, and
			DGND) are connected
			together.
DI 10. 15	DOND		
DI<015>	DGND	Input	Digital Input channels.
DO<015>	DGND	Output	Digital Output channels.
DGND	-	-	Digital Ground. This pin
			supplies the reference for
			the digital channels at the
			I/O connector as well as
			the +5VDC supply. The
			three ground references
			(AIGND, AOGND, and
			DGND) are connected
			together.
CNT0_CLK	DGND	Input	Counter 0 Clock Input. Th
CINTO_OLIN	DOND	mput	clock input of counter 0
			can be either external o
			internal , as set by soft-
			ware.
CNT0_OUT	DGND	Output	Counter 0 Output.
CNT0_GATE	DGND	Input	Counter 0 Gate Control
PACER_OUT	DGND	Output	Pacer Clock Output. This
			pin pulses once for each
			pacer clock when turned
			on. If A/D conversion is i
			the pacer trigger mode,
			users can use this signa
			as a synchronous signa
			for other applications.
TRG GATE	DGND	Innut	A/D External Trigger Gate
ING_GAIE	DGND	Input	
			When TRG _GATE is con
			nected to DGND, it will di
			able the external trigger
			signal to input.
EXT TRG	DGND	Input	A/D External Trigger. Thi
	1		pin is external trigger sig
EXT_ING			nal input for the A/D con
EXT_INC			
			version. A low-to-high
			version. A low-to-high edge triggers A/D conver
	DGND	Outout	version. A low-to-high edge triggers A/D conver sion to start.
+12V +5V	DGND	Output	version. A low-to-high edge triggers A/D conve

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