

PXI-2208

96-CH 12-Bit 3 MS/s Ultra High Density Analog Input PXI Module

Features

- PXI specifications Rev. 2.0 compliant
- 3U Eurocard form factor, CompactPCI compliant (PICMG 2.0 R3.0)
- 96-CH single-ended or 48-CH differential analog inputs
- Up to 3 MS/s sampling rate
- 12-bit A/D resolution
- On-board 1k-sample A/D FIFO
- Bipolar or unipolar analog input ranges
- Programmable gains of x1, x2, x4, x5, x8, x10, x20, x40, x50, x200
- 1024-configuration channel-gain queue
- Scatter-gather DMA for analog inputs
- 24-CH TTL digital input/output
- Analog and digital triggering
- Fully auto calibration
- Multiple modules synchronization through PXI trigger bus

Operating Systems

- Windows 2000/NT/XP/98
- Red Hat Linux
- Windows CE (call for availability)

Recommended Software

- VB/VC++/BCB/Delphi
- DAQBench

Driver Support

- D2K-DASK: Windows 2000/NT/XP/98 driver
- D2K-DASK/X: Red Hat Linux driver
- D2K-LVIEW: LabVIEW driver
- D2K-MTLB: MATLAB driver
- D2K-OCX: 32-bit ActiveX controls



Introduction

ADLINK PXI-2208 is an ultra high-density, high-performance analog input module. This device can sample up to 96 AI channels with various gain settings and scan sequences, making it ideal for dealing with ultra high-density analog signals with various input ranges and sampling speeds. These devices also offer a differential mode for 48 AI channels to achieve maximum noise elimination.

The PXI-2208 also features analog and digital triggering and 24-CH programmable digital I/O lines. Like all the other members in the PXI-2000 family, the PXI-2208 is able to perform analog input at full speed. Multiple modules can also be synchronized through the PXI trigger bus. The auto-calibration feature adjusts the gain and offset to a specified accuracy, eliminating the need to calibrate the modules by adjusting trimpots.

Termination Boards

DIN-68S/1M

Termination Board with a 68-pin SCSI-II Connector and DIN-Rail Mounting (Including One 1-meter ACL-10568 Cable)



Termination board DIN-68S/1M

Ordering Information

PXI-2208

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Pin Assignment

Connector CN1 Pin Assignment

AI0 (AIH0)	1	35	(AIL0)	AI48
AI1 (AIH1)	2	36	(AIL1)	AI49
AI2 (AIH2)	3	37	(AIL2)	AI50
AI3 (AIH3)	4	38	(AIL3)	AI51
AI4 (AIH4)	5	39	(AIL4)	AI52
AI5 (AIH5)	6	40	(AIL5)	AI53
AI6 (AIH6)	7	41	(AIL6)	AI54
AI7 (AIH7)	8	42	(AIL7)	AI55
AISENSE	9	43	AIGND	
AI8 (AIH8)	10	44	(AIL8)	AI56
AI9 (AIH9)	11	45	(AIL9)	AI57
AI10 (AIH10)	12	46	(AIL10)	AI58
AI11 (AIH11)	13	47	(AIL11)	AI59
AI12 (AIH12)	14	48	(AIL12)	AI60
AI13 (AIH13)	15	49	(AIL13)	AI61
AI14 (AIH14)	16	50	(AIL14)	AI62
AI15 (AIH15)	17	51	(AIL15)	AI63
AI16 (AIH16)	18	52	(AIL16)	AI64
AI17 (AIH17)	19	53	(AIL17)	AI65
AI18 (AIH18)	20	54	(AIL18)	AI66
AI19 (AIH19)	21	55	(AIL19)	AI67
AI20 (AIH20)	22	56	(AIL20)	AI68
AI21 (AIH21)	23	57	(AIL21)	AI69
AI22 (AIH22)	24	58	(AIL22)	AI70
AI23 (AIH23)	25	59	(AIL23)	AI71
AIGND	26	60	AIGND	
AI24 (AIH24)	27	61	(AIL24)	AI72
AI25 (AIH25)	28	62	(AIL25)	AI73
AI26 (AIH26)	29	63	(AIL26)	AI74
AI27 (AIH27)	30	64	(AIL27)	AI75
AI28 (AIH28)	31	65	(AIL28)	AI76
AI29 (AIH29)	32	66	(AIL29)	AI77
AI30 (AIH30)	33	67	(AIL30)	AI78
AI31 (AIH31)	34	68	(AIL31)	AI79

Pin Assignment

Connector CN2 Pin Assignment

AI32 (AIH32)	1	35	(AIL32)	AI80
AI33 (AIH33)	2	36	(AIL33)	AI81
AI34 (AIH34)	3	37	(AIL34)	AI82
AI35 (AIH35)	4	38	(AIL35)	AI83
AI36 (AIH36)	5	39	(AIL36)	AI84
AI37 (AIH37)	6	40	(AIL37)	AI85
AI38 (AIH38)	7	41	(AIL38)	AI86
AI39 (AIH39)	8	42	(AIL39)	AI87
EXTATRIG	9	43	AIGND	
AI40 (AIH40)	10	44	(AIL40)	AI88
AI41 (AIH41)	11	45	(AIL41)	AI89
AI42 (AIH42)	12	46	(AIL42)	AI90
AI43 (AIH43)	13	47	(AIL43)	AI91
AI44 (AIH44)	14	48	(AIL44)	AI92
AI45 (AIH45)	15	49	(AIL45)	AI93
AI46 (AIH46)	16	50	(AIL46)	AI94
AI47 (AIH47)	17	51	(AIL47)	AI95
AIGND	18	52	AIGND	
N/C	19	53	N/C	
EXTDTRIG	20	54	AF10	
EXTTIMEBASE	21	55	DGND	
PB7	22	56	PB6	
PB5	23	57	PB4	
PB3	24	58	PB2	
PB1	25	59	PB0	
PC7	26	60	PC6	
PC5	27	61	PC4	
DGND	28	62	DGND	
PC3	29	63	PC2	
PC1	30	64	PC0	
PA7	31	65	PA6	
PA5	32	66	PA4	
PA3	33	67	PA2	
PA1	34	68	PA0	