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Find the *Adlink cPCI-9116R* at our website: *Click HERE*

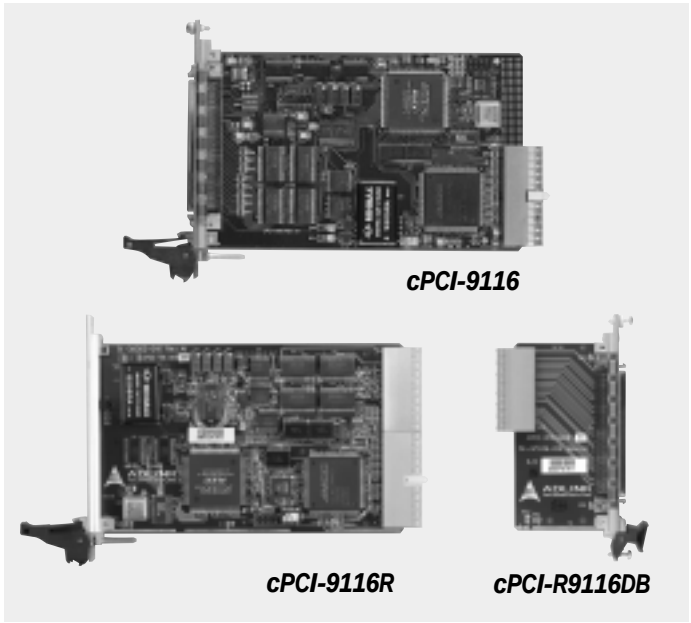
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cPCI-9116/R

16-bit 64-CH, 250KS/s Multi-functions DAS Module

Features

- 32-bit Compact PCI Bus, plug and play
- Up to 64 single-ended inputs or 32 differential inputs
- 16-bit analog input resolution
- Bipolar or uni-polar analog input
- Sampling rate up to 250KS/s
- 512 Sample channel / gain queue
- On-board 1k-sample FIFO
- Jumperless and software configurable
- Five A/D trigger modes: software trigger, pre-trigger, post-trigger, middle-trigger and delay-trigger
- Software Polling, Interrupt and Bus-mastering DMA data transfer available
- Rear I/O available on cPCI-9116R



Specifications

Analog Input (A/D)

- Converter and max sampling rate:
  - LT1606 (or equivalent) 250KS/s
- Resolution: 16-bit
- Number of channels: (programmable)
  - 64 single-ended (SE)
  - 32 differential input (DI)
  - Mixing of using SE and DI analog signal sources
- Analog input range: (programmable)
  - Bipolar: ±5V, ±2.5V, ±1.25, ±0.625V
  - Unipolar: 0~10V, 0~5.0V, 0~2.5V, 0~1.25V
- Over-voltage protection: Continuous ±35V maximum
- FIFO Size: 1K samples
- Channel / gain queue: 512 configurations
  - Signal type (SE/DI)
  - Channel scan sequence
  - Signal range
- Time base sources: internal 24 MHz, external time base
- Programmable scan interval and sampling rate
- AD Clock sources: divided from time base source
- Trigger sources: software trigger, pacer trigger, external digital trigger (ExtTrg)
- Trigger modes: pre-trigger, post-trigger, middle-trigger and delay-trigger
- Data transfer mode: polling, EOC interrupt transfer, FIFO half-full interrupt transfer, and bus-mastering DMA

Digital Input / Output

- Number of channels: 8 DI & 8 DO
- Signal type: TTL compatible inputs

General Purpose Timer / Counter

- Number of channel: One 16-bit up/down timer / counter

General Specifications

- Connector: 100-pin SCSI-type (AMP-787082-9 or equivalent)
- Operating temperature: 0˚C ~55˚C
- Storage temperature: -20˚~ 80˚C
- Humidity: 5 ~ 95%, non-condensing
- Dimension: 3U CompactPCI

Termination Boards

- DIN-100S

Ordering Information

cPCI-9116

16-bit, 64-CH, 250KS/s multifunction DAS module

cPCI-9116/R

16-bit, 64-CH, 250KS/s multifunction DAS module with Rear I/O

Note : Rear I/O version cannot be used in PXI platform due to signals conflict with PXI Bus

Pin Assignments of the 100-pin SCSI-type connector

U_CMMD	1	51	AGND
AI0	2	52	AI32
AI1	3	53	AI33
AI2	4	54	AI34
AI3	5	55	AI35
AI4	6	56	AI36
AI5	7	57	AI37
AI6	8	58	AI38
AI7	9	59	AI39
AI8	10	60	AI40
AI9	11	61	AI41
AI10	12	62	AI42
AI11	13	63	AI43
AI12	14	64	AI44
AI13	15	65	AI45
AI14	16	66	AI46
AI15	17	67	AI47
AI16	18	68	AI48
AI17	19	69	AI49
AI18	20	70	AI50
AI19	21	71	AI51
AI20	22	72	AI52
AI21	23	73	AI53
AI22	24	74	AI54
AI23	25	75	AI55
AI24	26	76	AI56
AI25	27	77	AI57
AI26	28	78	AI58
AI27	29	79	AI59
AI28	30	80	AI60
AI29	31	81	AI61
AI30	32	82	AI62
AI31	33	83	AI63
AGND	34	84	AGND
+15V out	35	85	-15V out
N/C	36	86	N/C
DI0	37	87	DO0
DI1	38	88	DO1
DI2	39	89	DO2
DI3	40	90	DO3
DI4	41	91	DO4
DI5	42	92	DO5
DI6	43	93	DO6
DI7	44	94	DO7
ExtTimeBase	45	95	N/C
ExtTrg	46	96	GP_TC_CLK
SSH_OUT	47	97	GP_TC_GATE
GP_TC_OUT	48	98	GP_TC_UPDN
+5V out	49	99	+5V out
DGND	50	100	DGND

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