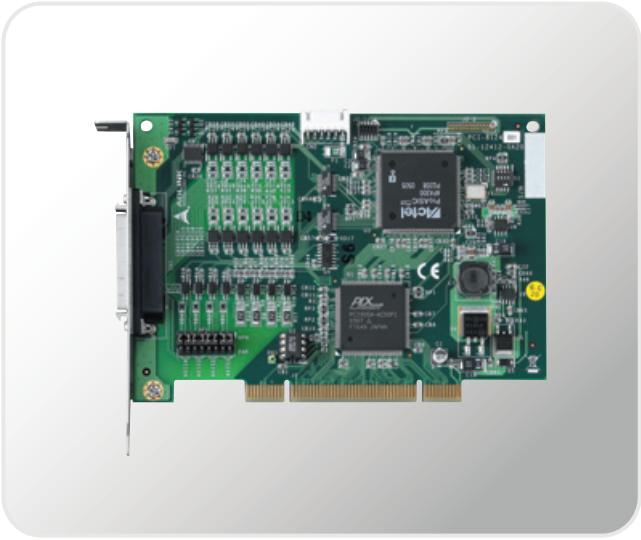
PCI-8124

NEW

Advanced 4-CH Trigger Board



Features

- *32-bit PCI bus, Rev. 2.2, 33MHz*
- *Card index switch selection*
- *Four 32-bit encoder input and trigger output channels*
- *Encoder input frequency: Up to 5MHz*
- *Trigger output frequency: Up to 1MHz*
- *Encoder input interface: OUT/DIR, CW/CCW, and 1x, 2x, 4x A/B phase*
- *Input / output circuit source can be selectable: TTL/ Open Collector (with isolation)*
- *Four 32-bit comparators where source can be configurable*
- *Internal high-speed FIFO for 4 32-bit comparators*
- *Capacity for each channel: Up to 512 points*
- *Support point array assignment and linear function generation for comparing points*
- *Trigger pulse width adjustable*
- *High-speed position latch*
- *Homing by EZ index with edge trigger*
- *Support force trigger*
- *Programmable interrupt sources*

Software Support

Windows Platform

Driver support for Windows 2K/XP
VB/VC++/BCB/Delphi are recommended programming tools

Ordering Information

PCI-8124	4-CH trigger board

Specifications

Counter

Number of channels	4
Maximum trigger pulse frequency	1MHz
Encoder counter	4, 32-bit
Comparator	4, 32-bit
FIFO capacity	512 points/channel
Maximum encoder input frequency	5MHz
Trigger pulse width	0.5μs to 1.6ms

I/O Signals

Partial I/O signals	optically isolated with 2500Vrms isolation voltage
Partial I/O signals	TTL type
encoder signals input pins	EA and EB
Encoder index signal input pin	EZ
Position latch input pin	LTC
Trigger pulse output pin	TRG

General Specifications

Connectors	50-pin SCSI-type connector
Operating Temperature	0˚C - 50˚C
Storage Temperature	-20˚C - 80˚C
Humidity	5 - 85%, non-condensing

Power Consumption

Slot power supply (input)	+5V DC ±5%, 900mA(max)
External power supply (output)	+5V DC ±5%, 500mA(max)

Pin Assignment

INCOM1	1	26	INCOM3
LTC1	2	27	LTC3
INCOM2	3	28	INCOM4
LTC2	4	29	LTC4
OUTCOM1	5	30	OUTCOM3
TRG1	6	31	TRG3
OUTCOM2	7	32	OUTCOM4
TRG2	8	33	TRG4
EA1+	9	34	EA3+
EA1-	10	35	EA3-
EB1+	11	36	EB3+
EB1-	12	37	EB3-
EZ1+	13	38	EZ3+
EZ1-	14	39	EZ3-
EA2+	15	40	EA4+
EA2-	16	41	EA4-
EB2+	17	42	EB4+
EB2-	18	43	EB4-
EZ2+	19	44	EZ4+
EZ2-	20	45	EZ4-
TTL-IN1	21	46	TTL-IN3
TTL-IN2	22	47	TTL-IN4
TTL-OUT1	23	48	TTL-OUT3
TTL-OUT2	24	49	TTL-OUT4
DGND	25	50	DGND

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