

Selector Guides USB and PCI Plug-In Boards and Modules

Multifunction Boards and Modules

	KUSB-3100	KUSB-3102	KUSB-3108	KUSB-3116	KPCI-1801HC	KPCI-1802HC
Page	356	356	356	356	363	363
Bus	USB	USB	USB	USB	PCI	PCI
Description	Low cost, multi function	Low gain, multi function	High gain, multi function	High performance, multi function	333kS/s, analog & digital I/O board, high channel count	333kS/s, analog & digital I/O board, high channel count, low gain
Analog Inputs						
No. Channels	8 SE	16 SE/pseudo-DI, 8 DI	16 SE/pseudo-DI, 8 DI (7 T/C, 1 CJC)	16 SE/8 DI	64 SE/32 DI	64 SE/32 DI
Resolution	12-bit	12-bit	16-bit	16-bit	12-bit	12-bit
Throughput	50 kS/s	100 kS/s	50 kS/s	500 kS/s	333 kS/s	333 kS/s
Analog Outputs						
Range Selection	Software	Software	Software	Software	Software	Software
No. Channels	2	2	2	4	2	2
Resolution	12-bit	12-bit	16-bit	16-bit	12-bit	12-bit
Digital						
No. Input/Output Channels	8 in, 8 out	8 in, 8 out	8 in, 8 out, 1 dynamic digital output	16 in, 16 out, 1 dynamic digital output	4 in, 8 out	4 in, 8 out
Sink	10mA	12 mA	12 mA (Port B) or 2 mA (dynamic digital output)	-12 mA	4 mA	4 mA
Source	2 mA	1 mA	-1 mA	-12 mA	-400 μ A	-400 μ A
Counter/Timers	1	2	2	5	0	0

	KPCI-3110A	KPCI-3116A	KPCI-3101A	KPCI-3102A	KPCI-3103A	KPCI-3104A
Page	366	369	372	372	372	372
Bus	PCI	PCI	PCI	PCI	PCI	PCI
Description	1.25MS/s, low gain, analog & digital I/O board with 2 analog outputs	250kS/s, high resolution, low gain, analog & digital I/O board with 2 analog outputs	225kS/s, low gain, analog & digital I/O board	225kS/s, low gain, analog & digital I/O board with 2 analog outputs	400kS/s, low gain, analog & digital I/O board	400kS/s, low gain, analog & digital I/O board with 2 analog outputs
Analog Inputs						
No. Channels	32 SE/16 DI	32 SE/16 DI	16 SE/8 DI	16 SE/8 DI	16 SE/8 DI	16 SE/8 DI
Resolution	12-bit	16-bit	12-bit	12-bit	12-bit	12-bit
Throughput	1.25 MS/s	250 kS/s	225 kS/s	225 kS/s	400 kS/s	400 kS/s
Analog Outputs						
Range Selection	Software	Software	N/A	Fixed	N/A	Fixed
No. Channels	2	2	0	2	0	2
Resolution	12-bit	12-bit	N/A	12-bit	N/A	12-bit
Digital						
No. Input/Output Channels	16	16	23	23	23	23
Sink	24 mA	24 mA	12 mA	12 mA	12 mA	12 mA
Source	-15 mA	-15 mA	-15 mA	-15 mA	-15 mA	-15 mA
Counter/Timers	4	4	4	4	4	4

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Digital I/O Boards and Modules

	KUSB-3160	KPCI-PIO3210A	KPCI-PDISO8A	KPCI-3160	KPCI-PIO24	KPCI-PIO96
Page	356	381	381	378	378	378
Bus	USB	PCI	PCI	PCI	PCI	PCI
Digital I/O Lines	96	16 in/16 out	8 in/8 out	96	24	96
Special Features	<ul style="list-style-type: none"> • High channel count • 64 bidirectional lines • 500V isolation barrier 	<ul style="list-style-type: none"> • Optically isolated digital I/O • Direct, non-polarized switching and sensing 	<ul style="list-style-type: none"> • Optically isolated digital I/O • Direct, non-polarized switching and sensing 	<ul style="list-style-type: none"> • High current drivers • Bidirectional I/O • Solid-state & electromechanical relay compatible 	<ul style="list-style-type: none"> • High current drivers • Bidirectional I/O 	<ul style="list-style-type: none"> • High channel count • High current drivers • Solid-state & electromechanical relay compatible
Output Type						
Solid State	•	•	•	•	•	•
Electromechanical	N/A	N/A	N/A	•	•	•
Available Output & Switching Current						
Sink	12 mA			64 mA	64 mA	64 mA
Source	-15 mA			15 mA	15 mA	15 mA

Analog Output Boards

	KPCI-3130	KPCI-3132
Page	375	375
Bus	PCI	PCI
Description	8-Channel Analog Output Board	2-Channel Analog Output Board
No. Channels	8	2
Computer	PC/AT	PC/AT
Resolution	20	20
Current or Voltage	V/I	V/I
Digital Inputs/Outputs	32	0
Pacer Clock	No	No

Counter/Timer Board

	KPCI-3140
Page	383
Special Features	<ul style="list-style-type: none"> • 16-bit counters • 32-bit digital I/O • Counts to 20MHz • Edge detection
Bus	PCI
No. of Channels	8
Input Rate	40 MHz
Digital In	32
Digital Out	32
No. of External Interrupt Inputs	8
No. of 16-Bit Counters	8