

# Selector Guides USB and PCI Plug-In Boards and Modules

## Multifunction Boards and Modules

	KUSB-3100	KUSB-3102	KUSB-3108	KUSB-3116
Bus	USB	USB	USB	USB
Description	Low cost, multi function	Low gain, multi function	High gain, multi function	High performance, multi function
<b>Analog Inputs</b>				
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
Resolution	12-bit	12-bit	16-bit	16-bit
Throughput	50 kS/s	100 kS/s	50 kS/s	500 kS/s
<b>Analog Outputs</b>				
Range Selection	Software	Software	Software	Software
No. Channels	2	2	2	4
Resolution	12-bit	12-bit	16-bit	16-bit
<b>Digital</b>				
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
Sink	10mA	12 mA	12 mA (Port B) or 2 mA (dynamic digital output)	-12 mA
Source	2 mA	1 mA	-1 mA	-12 mA
Counter/Timers	1	2	2	5

	KPCI-3110A	KPCI-3116A	KPCI-3101A	KPCI-3102A	KPCI-3103A	KPCI-3104A
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
<b>Analog Inputs</b>						
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
<b>Analog Outputs</b>						
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
<b>Digital</b>						
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

All KPCI Series boards are NOT SUPPORTED in Microsoft Windows 7 64-bit.



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## Digital I/O Boards and Modules

	KUSB-3160	KPCI-PIO32IOA	KPCI-PDISO8A	KPCI-3160
Bus	USB	PCI	PCI	PCI
Digital I/O Lines	96	16 in/16 out	8 in/8 out	96
Special Features	<ul style="list-style-type: none"> <li>• High channel count</li> <li>• 64 bidirectional lines</li> <li>• 500V isolation barrier</li> </ul>	<ul style="list-style-type: none"> <li>• Optically isolated digital I/O</li> <li>• Direct, non-polarized switching and sensing</li> </ul>	<ul style="list-style-type: none"> <li>• Optically isolated digital I/O</li> <li>• Direct, non-polarized switching and sensing</li> </ul>	<ul style="list-style-type: none"> <li>• High current drivers</li> <li>• Bidirectional I/O</li> <li>• Solid-state and electromechanical relay compatible</li> </ul>
<b>Output Type</b>				
Solid State	•	•	•	•
Electromechanical	N/A	N/A	N/A	•
<b>Available Output &amp; Switching Current</b>				
Sink	12 mA			64 mA
Source	-15 mA			15 mA

## Analog Output Boards

	KPCI-3130	KPCI-3132
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
Special Features	<ul style="list-style-type: none"> <li>• 16-bit counters</li> <li>• 32-bit digital I/O</li> <li>• Counts to 20MHz</li> <li>• Edge detection</li> </ul>
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

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