HSAIO 2201

High Speed Analog Input / Output FlexRIO Adapter Module

ADSYS
CONTROLS INC.

The HSAIO 2201 is a high channel count, high bandwidth digitizer and signal generator utilizing the National Instruments FlexRIO FPGA.

The HSAIO 2201 provides a high speed front end allowing users to easily develop custom signal processing applications on the FlexRIO FPGA utilizing LabVIEW FPGA's graphical development environment.

The HSAIO 2201 is ideal for data acquisition, high-speed control, sensor simulation, digital communications protocols or hardware-in-the-loop testing.

FEATURES

» General Purpose IO
- 4 Channels (2 Input, 2 Output)
- 0-5V

» Analog Outputs
- 30 Channels
- 16-bits per Channel
- 10 MHz Update Rate
- +/- 10V Single Ended

» Analog Inputs
- 2 Channels
- 16-bits per Channel
- 105 MS/sec
- +/- 10V Differential or Single Ended

Adsys Controls provides

state-of-the-art solutions

for the

most challenging problems

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High Speed Analog Input / Output FlexRIO Adapter Module

General
» Form Factor	FlexRIO
» Length	6.07"
» Width	0.75"
» Height (No Fan)	10.0"
» Height (with Fan)	14.5"
» External Power	12V
» Clocking	Internal or from FlexRIO

Analog Outputs
» Channels	30
» Resolution	16 bits
» Max Update Rate	10 MHz
» Range	+/- 10 V
» Output Signaling	Single Ended
» Output Impedance	50 Ohm
» Simultaneous Updates	Yes
» Connector	2 x VHDCI

Analog Inputs
» Channels	2
» Resolution	16 bits
» Max Sample Rate	105 MS/s
» Range	+/- 10 V
» Input Signaling	Differential or Single Ended
» Input Impedance	50 MOhm
» Simultaneous Sampling	Yes
» Analog Bandwidth (3dB)	> 120 MHz
» Filtering	Optional 1 MHz to 15 MHz
» Input Connector	SMC Female

Adsys Controls provides solutions for precision control systems, advanced electro-optical systems, laser systems, modeling and simulation, and unmanned aerial systems for military and commercial markets. From electronics design, embedded RT software, and image processing to game-changing laser and electro-optical systems for ISR&T, weapons, communication, and navigation, Adsys Controls provides state-of-the-art solutions for the most challenging problems.

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