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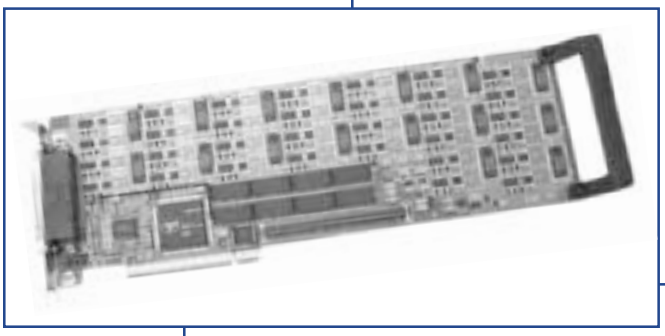
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ICS-610

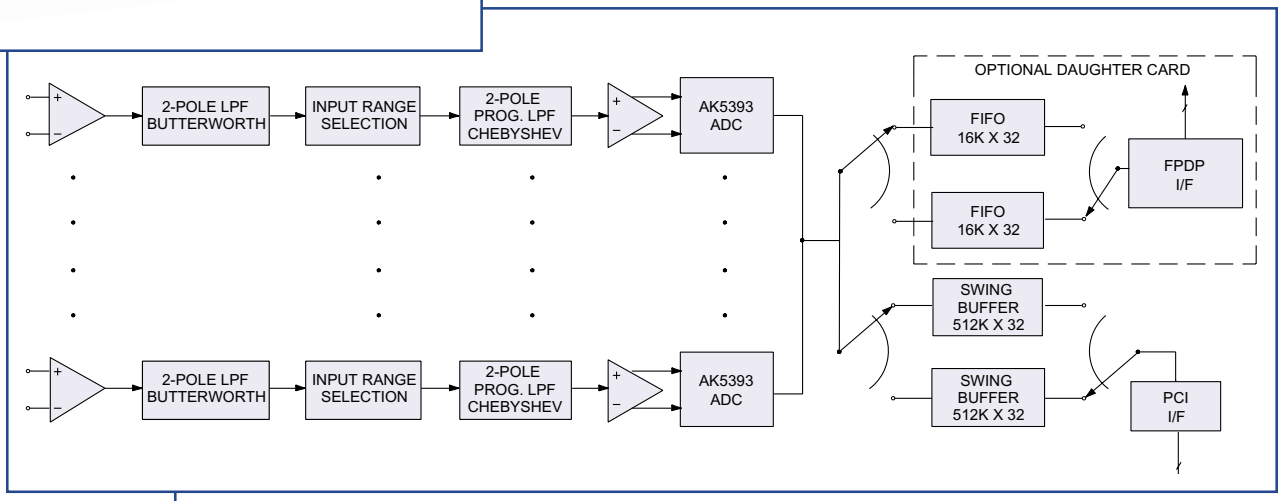
ICS-610

32-Channel, 108 kHz/ch. Data Acquisition Board

The ICS-610 is a complete data acquisition solution. Packing over 2300 components on a standard full-length PCI card, the ICS-610 offers 32 differential input channels, onboard programmable anti-aliasing and gain, 24-bit Sigma-Delta ADCs, simultaneous sampling at rates of up to 108 kHz/channel and over 90 dB signal-to-noise ratio, including harmonics, crosstalk and spurs.



These features make the ICS-610 an ideal choice for complex data acquisition applications such as sonar, vibration analysis, digital audio and precision test and measurement. As many as thirty-two ICS-610 boards can be operated synchronously to ensure simultaneous sampling over 1024 channels.



ICS-610 Block Diagram

ICS-610 Features

No. of Analog Inputs	8, 16 or 32 (differential)
Input Impedance	1 M Ohm (on each leg)
Full scale Input	1 Vpp to 10 Vpp (software selectable)
Max. Input Signal BW	49 kHz (± 0.003 dB)
Fixed Anti-Alias Filter	2-Pole Butterworth with cut-off at 75 kHz
Programmable Anti-Alias filter	2-pole Chebyshev with programmable cut-off frequencies of 6.5, 20, 65, and 150 kHz
ADC Resolution	24-Bits
Input Sample Rate	128 X Fs for Fs<54 kHz 64 X Fs for Fs>54 kHz (Fs=Output Rate or Effective Sample Rate)
Output Rate (Fs)	Max. 108 kHz/ch. Min. 1 kHz/ch. (2 kHz/ch. when using internal clock)
Sample Clock	Internal or External; Internal clock programmable in steps of 20 Hz
Trigger	Internal (software) or External (hardware)
SINAD [Signal/(Noise+Distortion); 0 - max. Fs/2]	> 90 dB
SFDR [0 - max. Fs/2]	> 90 dB
Onboard Storage	4 MByte Swing Buffer
Operating Modes	Continuous, Capture (multiple PRFs), Transient Capture (circular buffering)
PCI Interface	PCI 2.1 32-bit, 33 MHz Master/Slave with DMA chaining, > 80 MBytes/s.
Front Panel Interface	Optional ANSI/VITA 17 FPDP 32-Bit, 160 MBytes/s
Environmental Specifications	Commercial
Power	35 Watts total on 5V, +12V & -12V

{Specifications are subject to change without notice}

For more information

Download from www.ics-ltd.com
Tech Note #37
Application Note AN-SN-1

Ordering Information

ICS-610-xx

xx : Number of channels. 8, 16 or 32 channels

DC-610-FPDP

Optional daughter card FPDP interface. **Required for synchronous sampling in multiple board operation.**

DRV-610-NT
DRV-610-LX
DRV-610-SSS

Software device drivers for Windows, Linux and Solaris operating systems. Object-only version of driver for Windows supplied free with the board.

LIB-610-ML

MATLAB Application Library for Windows

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