

Analog Signal Conditioning Card

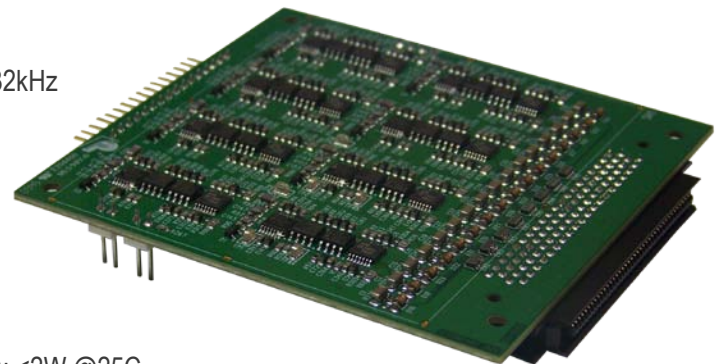
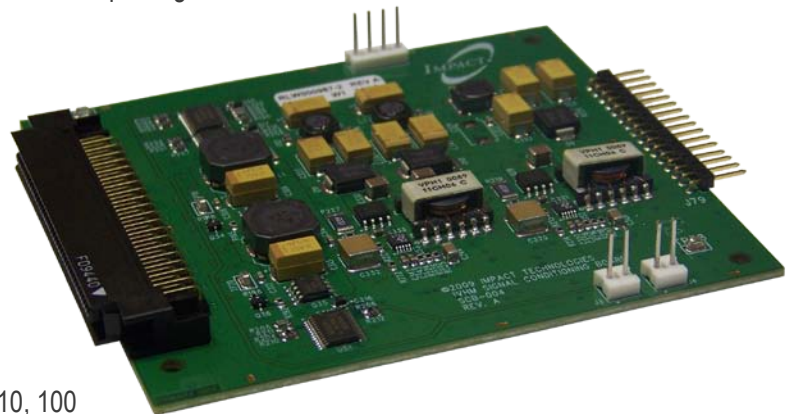


High-Performance Digitally-Programmable Amplification and Filtering Device

Impact's 4th generation Analog Signal Conditioning card is designed to meet the needs of demanding instrumentation applications. The Signal Conditioning Card is a high-performance digitally-programmable amplification and filtering device in a PC104-style form factor developed to introduce alias-free analog signals into your computing package. The card is designed to act as the intermediary between heterogeneous sensor packages and generic COTS data acquisition units.

Key Features:

- 32 signal inputs, 8 signal outputs
- Supports the following sensor types:
- Voltage-output: DC or AC coupled (0-10V)
- Current-output: 4-20mA
- IEPE: Includes integral IEPE power supply
- Amplifier gains individually programmable by channel: 1, 10, 100
- Power-saving modes to reduce energy usage during idle periods
- Mode and gain selection via standard SMBus interface
- Supports DC and AC inputs with signal input frequencies up to 32kHz



Specifications:

- $\pm 10V$ Analog inputs
- Power consumption:
- Idle (control circuitry on, other supplies off): $<10mW @25C$
- Typical (all supplies on, inputs configured in voltage-input mode): $<2W @25C$
- Maximum (all supplies on): $<35W @25C$
- Industrial temperature range (-40C to 85C)
- Size: 4.3"L x 3.6"W x .04"H
- Weight: 75g
- PC-104-compliant mounting posts
- Overvoltage/surge protection

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