

National Instruments has announced the NI PXIe-4331, the latest in the NI SC Express family of high-performance data acquisition (DAQ) modules with built-in signal conditioning. The DAQ device is a simultaneous high-speed bridge input module that provides signal conditioning for dynamic measurements from strain, pressure, torque and load sensors. The NI PXIe-4331 increases the speed of bridge-based measurements and, with PXI Express, provides 250 MB/s of dedicated bandwidth per device to give engineers the freedom to increase channel count without compromising sampling rates or data throughput.

The NI PXIe-4331 features eight channels with 24-bit analog-to-digital converters (ADCs) per channel and 102.4 kS/s per channel sampling rate. To improve accuracy and reject noise, the module offers digital filters per channel. Additionally, the module includes an independent programmable 0.625 to 10 V excitation voltage on each channel for flexibility and fault protection. The NI PXIe-4331 also provides remote sensing, internal bridge completion and shunt calibration options per channel. The 8-channel bridge input module can scale to a 136-channel system in a single chassis and thousands of channels when synchronizing across multiple chassis. The simultaneous sampling, high sample rate and channel synchronization features make the module ideal for structural test applications such as fatigue and impact test, design validation and other dynamic tests. These applications are common in industries such as automotive, aerospace, defense and renewable energy.

The NI PXIe-4331 includes NI-DAQmx driver software with support for multidevice tasks, making it possible for engineers to easily synchronize multiple modules. It also integrates with NI software including NI LabVIEW, the LabVIEW Real-Time Module and NI DIAdem.

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