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Find the *National Instruments SCXI-1126* at our website: *Click HERE*

Integrate Frequency Inputs and Counters into Your SCXI Systems

You can now easily integrate frequency inputs and event counting into SCXI systems. For high-performance frequency measurements, the SCXI-1126 provides 8 channels of isolated frequency-to-voltage conversion. Because the output voltages of this module are multiplexed onto the SCXIbus, you can scan frequency inputs along with analog inputs from other SCXI modules for time-correlated analog and frequency inputs.

The SCXI-1126, with per-channel safety isolation, works with digital and analog input signals up to 250 V. It is also completely software programmable, so you can easily configure each channel frequency input range, threshold level, hysteresis level, and output filtering.

For general-purpose event counting and frequency inputs, National Instruments is also now distributing two modules from Alliance Program member Developpement Ingenierie. The SCXI-CTC8 and SCXI-FRQ8 provide 8 channels of event counting and 8 channels of frequency counting, respectively. Both modules work with TTL-level inputs up to 20 MHz and provide software-controlled simultaneous latching on all 8 inputs.



The SCXI-1126, with per-channel safety isolation, works with digital and analog input signals up to 250 V.

Module	Description	Isolation	Maximum Frequency	Input Signal
SCXI-1126	8-channel isolated frequency inputs	√	128 kHz	Up to 250 V
SCXI-CTC8	8-channel event counter	–	20 MHz	TTL level
SCXI-FRQ8	8-channel frequency counter	–	20 MHz	TTL level

The modules communicate data via the digital serial protocol on SCXIbus. Currently, the SCXI-CTC8 and SCXI-FRQ8 modules include LabVIEW drivers only for Windows NT/95/3.1.

More information on SCXI is available in our 1998 catalogue – check this option on the reply card!

Time-Correlating Analog and Digital Data on a DAQ Board?

With the flexibility of DAQ products from National Instruments, you can to turn the challenge of correlating analog and digital data into a success. You can create systems for data acquisition and control in which you synchronize analog inputs, digital I/O, and buffered counter/timer operations. Such a system could be based on the pacing produced by an optical encoder or configured so that the analog outputs lag analog inputs by a specified time.

For example, many automotive tests require correlated analog and digital data. Synchronized acquisition of digital data from the crank shaft and engineer timing system with analog data from vehicle shocks determines how the vehicle performs under various road conditions. The correlation of position, torque, and time involved in placing a screw cap on a bottle is essential data to have for monitoring bottle production.

Time-correlated analog and digital data is possible through the advanced timing and triggering features available on our E Series DAQ boards. By configuring the analog inputs to be timed externally from your encoder and setting up counters to perform buffered relative timestamping, you can generate various correlated curves, such as torque vs. time, or position vs. temperature.

When you select E Series DAQ boards from National Instruments, you are ensured of unparalleled timing flexibility that makes concurrent, mixed signal acquisition a reality.

For an application note on concurrent mixed signal acquisition, check this option on the reply card.

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