DISCONTINUATION OF THE AT-DSP2200

The AT-DSP2200 is being discontinued. You will not be able to order this product after December 15, 1999, and you must accept delivery no later than December 31, 1999. No warranty repairs will be authorized after December 31, 2000.

Important Dates

Final Order: December 15, 1999
Final Delivery: December 31, 1999
Final RMA: December 31, 2000

Alternative Solutions

The PCI-4451 and the NI 4551 for PCI are functionally similar to the AT-DSP2200, and either board may be used as an alternative, but there are important differences between these boards and the AT-DSP2200: The PCI-4451 and the NI 4551 for PCI have a different pinout, different I/O connectors, require different I/O cables than the AT-DSP2200, and are PCI-bus devices.

The PCI-4451 and the NI 4551 for PCI require NI-DAQ 6.1 or higher and Windows NT/98/95. The latest version of NI-DAQ ships with the board. If you are a register-level programmer, programs created for the AT-DSP2200 will require substantial modifications to work with the PCI-4451 or NI 4551 for PCI. If you do not want to upgrade your driver software or modify existing programs, and continue using the AT-DSP2200, you must place an order to fulfill your future requirements of the AT-DSP2200 kit no later than December 15, 1999.

About the PCI-4451 and NI 4551 for PCI

The PCI-4451and NI 4551 are high-performance, high-accuracy analog I/O devices for the PCI bus. These PCI-DSA Series devices are specifically designed for demanding dynamic signal acquisition applications, and have the features and high-quality specifications to acquire or generate signals with high accuracy and fidelity without introducing noise or out-of-band aliases.

Both products have two channels of 16-bit simultaneously sampled input at 204.8 kS/s and two channels of 16-bit simultaneously updated output at 51.2 kS/s. Both the analog input and the analog output circuitry have oversampling delta-sigma modulating converters as in the AT-DSP2200. Delta-sigma converters are inherently linear, provide built-in brick-wall anti-aliasing/imaging filters, and have specifications that exceed other conventional technology for this application with regard to THD, SNR, and amplitude flatness.

The PCI-4451 and the NI 4551 include many of the same features as the AT-DSP2200 as well as these additional features:

- Analog input
    - Differential input
    - Extended input bandwidth to 95 kHz
    - Software-selectable sample rate from 5 to 204.8 kS/s in increments of 190.7 μS/s
    - Software selectable gain from –20 to +60 dB in 10 dB steps
    - Extended input voltage ranges from ±10 mV to ±42.4 V
    - Overvoltage protection
    - Overload detection
- Analog output
    - Balanced differential output
    - Input bandwidth to 23 kHz
    - Software-selectable sample rate from 1.25 to 51.2 kS/s in increments of 47.6 μS/s
    - Software-selectable attenuation of 0, 20, and 40 dB
    - Extended output voltage ranges from ±10 V, ±1 V, and ±100 mV
    - Short-circuit protection
- Additional features
    - Synchronized analog input and output
    - Digital I/O
    - PCI bus

The NI 4551 for PCI differs from the PCI-4451 in some ways. The NI 4551 for PCI is a computer-based, real-time Zoom FFT analyzer; the PCI-4451 is a standard data acquisition device and works with the same software as the MIO E Series products. The NI 4551 for PCI will provide real-time signal processing through an instrument driver or VirtualBench DSA. The PCI-4451 and NI 4551 for PCI are not compatible with existing NI-DSP code.

For More Information

If you have any questions about purchasing more AT-DSP2200 boards, contact your local National Instruments sales representative. If you have any questions about replacing the AT-DSP2200 with the PCI-4451 or NI 4551 for PCI, contact the National Instruments Applications Engineering department or visit our web site at `www.natinst.com`.