Software-Defined PXI RF Instrumentation Delivers Fast, Flexible Measurements

National Instruments announces a new wireless local area network (WLAN) test solution that can generate and analyze RF signal measurements four times faster than other modular instrumentation solutions and up to 10 times faster than traditional box instruments. The test solution combines new NI WLAN Measurement Suite software for the National Instruments LabVIEW and LabWindows™/CVI development environments with NI 6.6 GHz PXI Express RF hardware to deliver increased speed and flexibility for testing IEEE 802.11 a/b/g standards. Because the solution is software-defined, engineers easily can configure their same measurement hardware to test more than six other RF communications standards including GPS, WiMAX, Bluetooth and RFID. With software-defined instrumentation, which consists of modular hardware and user-defined software, engineers can take advantage of the latest CPU technological advances such as multicore processing and parallel programming techniques to achieve the fastest measurement times in the industry with software-defined PXI instrumentation such as the PXI Express RF 6.6 GHz instruments.