

LXI products

MICROWAVE SYNTHETIC INSTRUMENTS

Agilent Technologies has introduced a family of microwave synthetic instruments that supports the U.S. Department of Defense (DoD) NxTest vision of flexible, modular, and configurable instrumentation. Synthetic instrumentation involves linking together individual hardware and software test modules to emulate standard instruments in a compact form factor. This common system architecture provides obsolescence protection

by enabling the design of scalable automated test systems with the flexibility to accommodate new measurement capabilities as applications change.

The new instruments include the N8201A

Downconverter, the N8221A Digitizer, the N8241A Arbitrary Waveform Generator, the N8212A Vector Upconverter, and the N8211A Analog Upconverter. All of the instruments will be LXI compliant.

The N8201A is a 26.5-GHz downconverter that provides IF output frequencies of 7.5, 21.4, and 321.4 MHz. External mixing can be used to downconvert signals up to 110 GHz. The 30-MS/s IF digitizer, the N8221A, has a 21.4-MHz IF input, a dynamic range of 80 dB, 14-b resolution, and a modulation bandwidth of 8 MHz.

The N8241A features a sampling rate of 1.25 GS/s and 15-b resolution, simultaneously. It has dual-channel, single-ended, and differential outputs with 500 MHz of instantaneous bandwidth per channel.

The 20-GHz vector upconverter, the N8212A, is a microwave source with greater than 2-GHz I/Q modulation bandwidth. It features AM, FM, and pulse modulation and multi-source coherent carrier capability. The N8211A 20/40-GHz Analog Upconverter offers internal or external AM, FM, and pulse modulation capabilities along with high output power and low phase noise.

Agilent Technologies
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MODULAR SWITCHING CHASSIS

Pickering Interfaces announces the Models 60-100 and 60-101 Modular Switching Chassis that comply with Functional Class C products of the LXI standard. Model 60-100 has seven slots and Model 60-101 13 slots that can accommodate a range of the company's 3U PXI switching modules. The 32/64-b chassis backplane is compliant with the cPCI/PXI specification.



Front-panel LEDs are provided that monitor system operation and include Power, Ready, Error, LAN, and Active. The chassis meets applicable EU

directives including Low Voltage Safety EN 61010-1:1993, EMC Immunity EN 50082-1:1992, and EMC Emissions EN 55011:1991.

Models 60-100/101 are supplied with generic IVI drivers as per the standard but also can be controlled via a kernel driver. The LXI-compliant interface enables the chassis to be operated from a standard PC-Ethernet interface. Remote control is accommodated using simple cabling or the web.

Pickering Interfaces
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